



U.S. Department of Transportation

National Highway Traffic Safety Administration

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If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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# DYNAMIC SCIENCE, INC.

In-Depth Accident Investigation

Contract DTNH22-94-D-27058 Case DSI-96-AB-14

1997

		Technical Report Documentation Page		
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In-Depth Accident Inve	estigation	March 1996		
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Annapolis, MD 21401		DTNH22-94-D-27058		
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16. Abstract				
This case was initiated in respinantled as a remote investigation	•	serious head injuries to a child in the right front passenger seat. The case is being		
This collision occurred during	1996 at 1245 hours in the	the state of		
Vehicle 1, a 1996 Ford Escort station wagon driven by a 40-year-old male, was pulling into a residence driveway. The right front seat was occupied by a 38-year-old female. A 7-month-old female was initially seated in a child seat in the rear seating area, but became fidgety and was removed from the seat and was now seated in the lap of the right front occupant. The right front occupant was using the automatic shoulder harness, but not the lap belt.				
The driver of Vehicle 1 became confused while entering the driveway and stepped on the accelerator instead of the brake. Vehicle 1 accelerated forward and struck the corner of a house. Vehicle 1 sustained a delta v of 20 km/h (12 MPH). Both airbags deployed at this time. It appears that the driver braked just prior to impact.				
The 7-month-old child was flung forward prior to impact and struck the windshield with her head. She sustained a skull fracture, bilateral subdural hematomas, and a tear to the sagittal sinus. She was transported by car to a local hospital and, after becoming lethargic, was transferred by air to a local trauma center. She underwent an operation to relieve pressure on her brain. The procedure was successful and she was released four days after the accident.				
Vehicle 1 was towed from the scene due to damage. It was inspected at a local body shop and will be repaired.				
17. Key Words		18. Distribution Statement		
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19. Security Classif. (of this report)

#### TECHNICAL SUMMARY

CONTRACTOR:

Dynamic Science, Inc.

CONTRACT NUMBER:

DTNH22-94-D-27058

CASE NUMBER:

Case DSI-96-AB-14

This case was initiated in response to a report of airbag-related serious head injuries to a child in the right front passenger seat. The case is being handled as a remote investigation.

This collision occurred during

1996 at 1245 hours in the state of

Vehicle 1, a 1996 Ford Escort station wagon driven by a 40-year-old male, was pulling into a residence driveway. The right front seat was occupied by a 38-year-old female. A 7-month-old female was initially seated in a child seat in the rear seating area, but became fidgety and was removed from the seat and was subsequently seated in the lap of the right front occupant. The right front occupant was using the automatic shoulder harness, but not the lap belt.

The driver of Vehicle 1 became confused while entering the driveway and stepped on the accelerator instead of the brake. Vehicle 1 accelerated forward and struck the corner of a house. Vehicle 1 sustained a delta v of 20 km/h (12 MPH). Both airbags deployed at this time. It appears that the driver braked just prior to impact.

The 7-month-old child was flung forward prior to impact and struck the windshield with her head. She sustained a skull fracture, bilateral subdural hematomas, and a tear to the sagittal sinus. She was transported by car to a local hospital and, after becoming lethargic, was transferred by air to a local trauma center. She underwent an operation to relieve pressure on her brain. The procedure was successful and she was released four days after the accident.

Vehicle 1 was towed from the scene due to damage. It was inspected at a local body shop and will be repaired.

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The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the National Highway Traffic Safety Administration.

The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

# DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-96-AB-14

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Location:	4
Area/Type:	Residential
Date/Time:	1996 / 1245 hours
Accident Type:	Vehicle v. Fixed Object (House)
INJURY SEVERITY:	
Vehicle 1	Driver, not injured Seated R/F occupant, no codeable injuries Held R/F occupant, AIS=5
AMBIENCE:	
Viewing Conditions:	Good
<b>Cloud Cover:</b>	Unknown
Precipitation:	None
Temperature:	6 to -9° C (43 to 14° F)

**ACCIDENT DATA:** 

**Road Surface:** 

Unknown

#### **ROADWAY**:

**VEHICLE 1** 

**Type:** Driveway

**Width:** (13.8 ft.)

Traffic Density: None

Median: None

Edge: Unknown

Surface: Unknown

**Reported Defects:** None

Co-efficient of Friction (est.): Unknown

Vertical Alignment: Unknown

Horizontal Alignment: Straight

# TRAFFIC CONTROLS:

**VEHICLE 1** 

Signals: None

Signs: None

**Speed Limit:** No statutory limit

Markings: NA

#### **VEHICLES:**

**VEHICLE 1** 

1996 Ford Escort **Description:** 

Station Wagon

27,305 km **Odometer:** 

(16,967 miles)

1.9 L EFI I4 **Engine:** 

**Vehicle Modifications:** None

**Tire Condition:** Good

Lap belts at the R/F, **Manual Restraints:** 

> L/F, C/R locations. Lap and shoulder belts at the R/R, L/R positions.

Supplemental Restraint **Automatic Restraints:** 

System (driver's and passenger's side air bags). Motorized shoulder belts at the R/F, L/F locations.

None **Reported Defects:** 

Child seat in rear Cargo:

Windshield damaged by Windshield Damage:

left hand of Occupant 2

and the head of Occupant 3.

N/A Fleet:

Towed, due to damage **Tow Status:** 

#### **VEHICLE DAMAGE:**

**VEHICLE 1** 

Object Struck: House

Event Number: 01

CDC: 12FZEW2

**Maximum Crush:** 31.5 cm @ 69.3 cm from

right bumper corner

#### **VEHICLE VELOCITY ESTIMATES:**

**VEHICLE 1** 

Impact Speed: 20 km/h (12 MPH) based

(estimated) on barrier equivalent speed

Total Delta V: 20 km/h (12 MPH)

**Longitudinal Delta V:** -20 km/h (-12 MPH)

Lateral Delta V: 0 km/h (0 MPH)

**Energy Dissipation:** 20873 joules

(15393 Ft-Lb)

#### **COLLISION SEQUENCE:**

**Pre-Crash**: Vehicle 1, a 1996 Ford Escort station wagon driven by a 40-year-old male,

was pulling into a residence driveway. The right front seat was occupied by a 38-year-old female. A 7-month-old female was initially seated in a child seat in the rear seating area, but became fidgety and was removed from the seat and was subsequently seated in the lap of the right front occupant. The right front occupant was using the automatic shoulder

harness, but not the lap belt.

Crash: The driver of Vehicle 1 became confused while entering the driveway and

stepped on the accelerator instead of the brake. Vehicle 1 accelerated forward and struck the corner of a house. Vehicle 1 sustained a Delta V of 20 km/h (12 MPH). Both airbags deployed at this time. It appears that the

driver braked just prior to impact.

**Post Crash:** Vehicle 1 came to rest near the struck house. At some point subsequent to

the collision, the vehicle was pushed backwards away from the house.

# Occupant Kinematics:

The 7-month-old female was seated on the lap of the right front occupant. The right front occupant was wearing the shoulder harness portion of the seatbelt. The child was not restrained. Prior to impact, it appears that the driver braked. The right front occupant went forward. Her left hand was outstretched and she contacted the windshield. The child also went forward and struck the windshield with her head, causing the skull fracture. At deployment, the left hand of the right front occupant was forced to the left, striking the mirror. The airbag appears to have forced the child into the right front occupant, bloodying the nose of the right front occupant.



Figure 1. Hand / head contacts

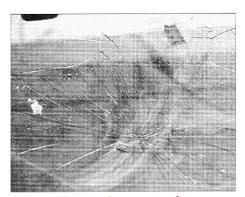


Figure 2. Hand contact, closeup

### Airbag System:

Vehicle 1 was equipped with a driver's and passenger's side supplement restraint system. The driver's side, steering wheel mount airbag measures 52 x 60 cm. There are 10 folds in front, 6.5 cm apart. The module cover opens in an "H" pattern. The passenger's side, top/mid mount airbag measures 77 x 80 cm. There are 14 folds, 7 cm apart. The module cover is a single piece and is hinged at the top. There was a small amount of blood on the airbag which likely came from the nose of the right front occupant.

#### **Scene Clearance:**

The 7-month-old was knocked unconscious. She was initially taken by car to a local hospital. She had regained consciousness and was crying, but shortly thereafter she became lethargic. A CT scan revealed that she had sustained a large bilateral subdural hematoma, a depressed frontal bone fracture, and a tear of the superior sagittal sinus. She was transported by air to an area trauma center. According to both the driver and the medical records, there were no visible external injuries. She underwent an operation to relieve pressure on the brain., and was hospitalized for a total of 4 days. According to the driver she has not exhibited any adverse

reactions to her injury since her release and seems to be doing fine. The driver was not injured. The right front occupant sustained a bloody nose.

The police were notified 5 hours after the collision. Vehicle 1 was towed from the scene due to damage. It was inspected at a local body shop and will be repaired.

A chronology of accident events follows:

Accident time:	1245
Child arrived at trauma center:	1715
Police notified:	1723
Police arrived on scene:	1734
Child admitted to trauma center:	1858

#### **Safety Standards:**

There were no violations of Federal Motor Vehicle Safety Standards and Regulations found during the inspection of the case vehicle.

#### **DRIVER AND OTHER OCCUPANTS:**

#### **VEHICLE 1**

DRIVER	OCCUPANT 2

Age/Sex: 40/Male 38/Female

Seated Position: Left front Right front

Seat Type: Bucket Bucket

**Height:** 178 cm (70 in.) 168 cm (66 in.)

**Weight:** 95 kg (210 lbs.) 82 kg (180 lbs.)

Occupation: Unknown Unknown

Pre-existing Medical NA NA

Condition:

Alcohol/Drug Involvement: None noted None noted

**Driving Experience:** > 20 years NA

Body Posture: Normal, upright Normal, upright

**Hand Position:** Both hands on wheel, Around child

unknown clock position

Foot Position: Initially on brake, then onto Both presumably on floor

accelerator

Restraint Usage: Automatic shoulder harness in

in place, unknown if lap belt place, lap belt not used

used

#### **DRIVER AND OTHER OCCUPANTS:**

# **VEHICLE 1**

Occupant #3

**Age/Sex:** 7 mos./Female

Seated Position: Right front, on lap of

Occupant #2

Seat Type: Bucket

**Height:** 70 cm (27.5 in.)

**Weight:** 7.87 kg (17.3 lbs.)

Occupation: NA

**Pre-existing Medical** None

Condition:

Alcohol/Drug Involvement: NA

**Driving Experience:** NA

**Body Posture:** Facing forward on lap of

Occupant 2

**Hand Position:** Unknown

Foot Position: Unknown

**Restraint Usage:** None

# **INJURIES:**

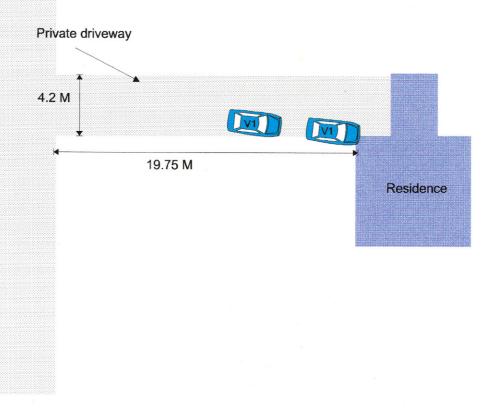
# Vehicle 1

	<u>INJURY</u>	OIC CODE	<u>ICD-9</u>	<b>SOURCE</b>
DRIVER:	Not injured			
R/F OCC:	Not injured			
R/F/ OCC 2: Infant occupant seated in lap of R/F OCC	Large bilateral subdural hematoma	140654.5,6	801.2	Windshield
	Left frontal depressed skull fracture	150404.3,5	801.2	Windshield
	Torn superior sagittal sinus	122402.2,9	Not listed	Unknown

# Abbreviations Used In Scene And Photographic Documentation

ft Feet in Inches Abbreviated Injury Scale AIS **BLF** Begin Left Front **BLR** Begin Left Rear **BRF** Begin Right Front BRR Begin Right Rear CBE Cab Behind Engine CCW Counterclockwise CDC Collision Deformation Classification Center of Gravity CG CMCentimeter COE Cab Over Engine CW Clockwise E, EB East, Eastbound ELF End Left Front ELR End Left Rear **ERF End Right Front** ERR **End Right Rear** FRP **Final Rest Position** KG Kilogram KPH Kilometers Per Hour L/F Left Front L/R Left Rear M Meter N, N/B North, Northbound NE Northeast NWNorthwest **PDOF** Principal Direction of Force POI Point of Impact R Radius of Curvature R/F Right Front R/L Reference Line RP Reference Point R/R Right Rear S. SB South, Southbound SE Southeast SWSouthwest T Time or Elapsed Time (in seconds) U.S. United States Highway V1 Vehicle Number 1 W West

# **SCENE DIAGRAM:**





# **COLLISION MEASUREMENTS**<sup>1</sup>

# Case Number DSI-96-AB-14

Reference Point:

Intercept point between driveway and roadway

Reference Line:

North edge of driveway

DATA POINT	LONGITUDINALS	LATERALS
Begin driveway	0	0
End driveway	4.2 M (13.8 ft) SRP	. 0
Impact point with residence	4.2 M (13.8 ft) SRP	19.75 M (64.8 ft) ERL
Final rest, LR	3.6 M (11.8 ft) SRP	15.3 M (50.2 ft) ERL
Note: Vehicle pushed away from residence post- crash.		
Final rest, LF	3.9 M (13.1 ft) SRP	17.9 M (58.6 ft) ERL

<sup>1</sup>Based on police diagram

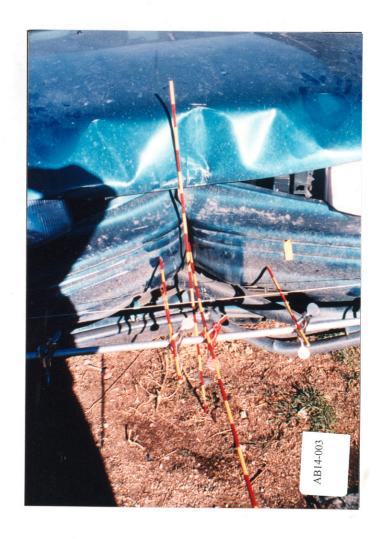
## **PHOTO INDEX**

# Case No. DSI-96-AB-14

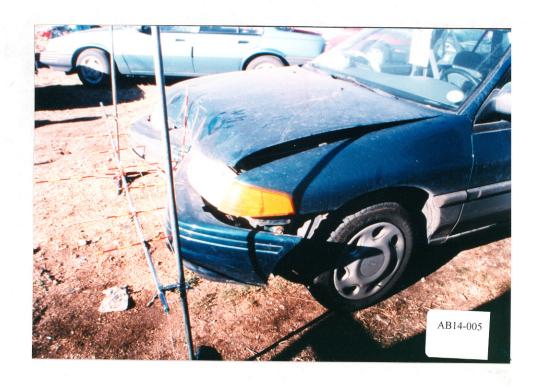
PHOTO NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1-22	1	CCW	Exterior of Vehicle 1.
23-70	1	NA	Interior of Vehicle 1.
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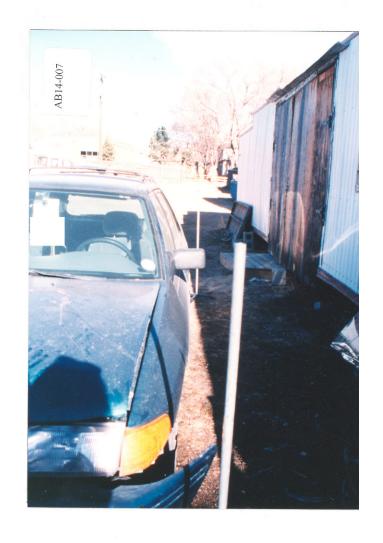




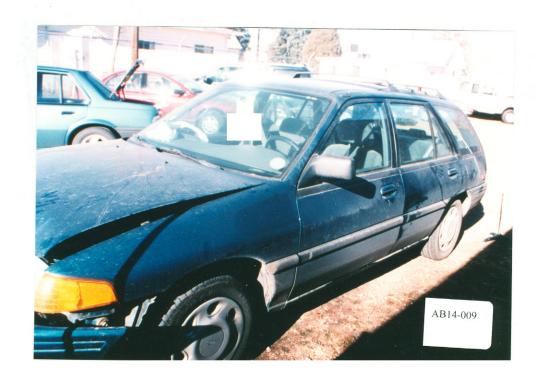














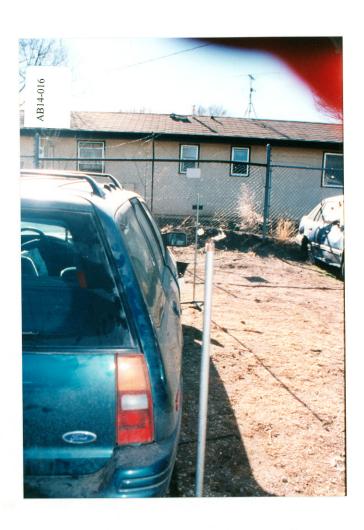






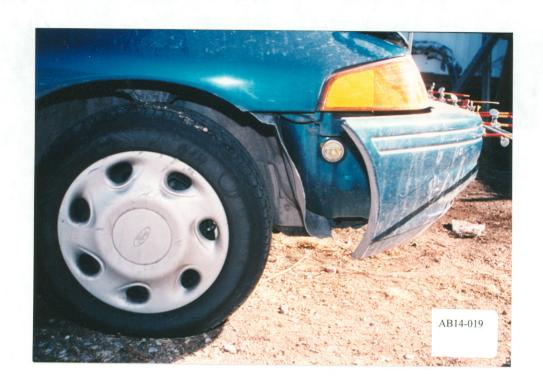




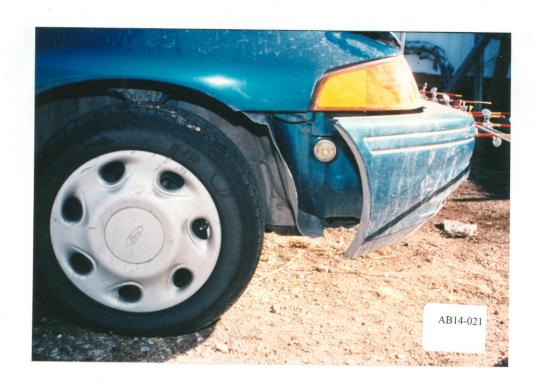
























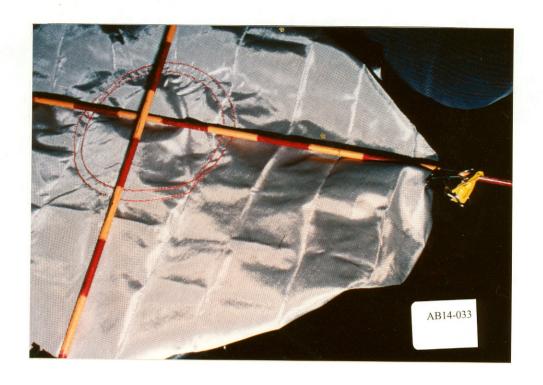


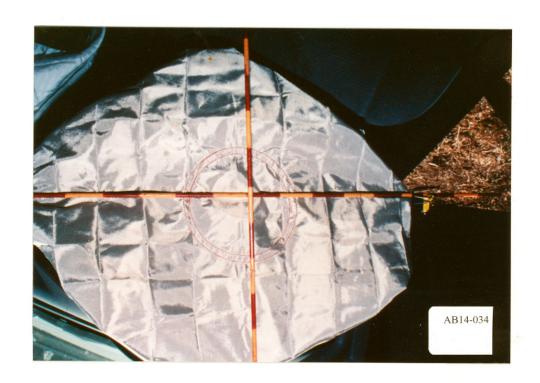


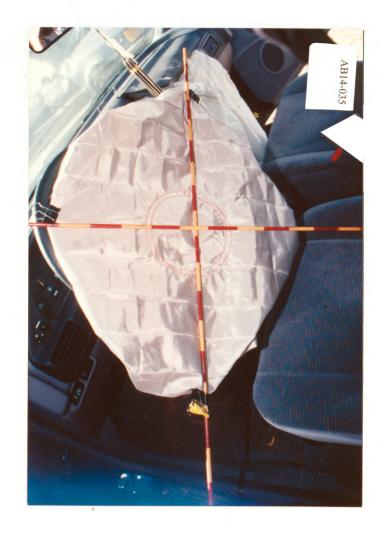










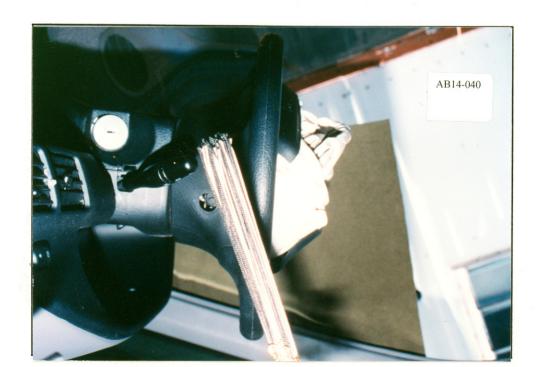


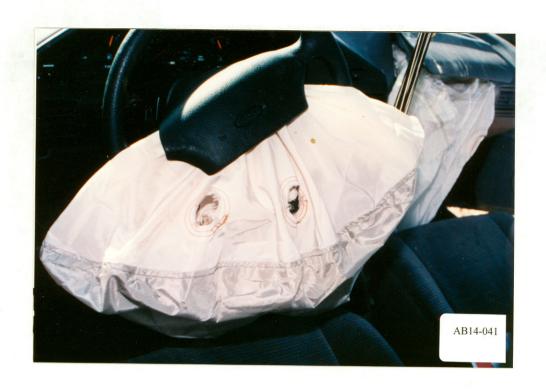












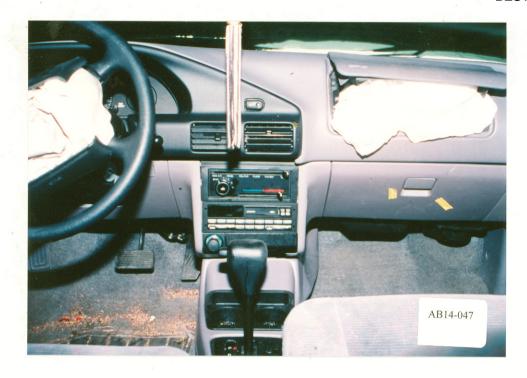






























































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Return This Portion with Payment

Your request has been received and the records have been copied.

Invoice Customer #

is under contract to the health care provider from whom you requested information. Please direct all inquiries or correspondence to:

All accounts past 45 days will be turned to collections with a \$30.00 late fee, plus all collection costs.

NonTaxable Subtotal 61.36
Taxable Subtotal 0.00
Tax 0.00
Total Invoice 61.36

**Customer Original** 

These copies were provided on behalf of a health care provider by , a commercial copy service.

Questions about our services, fees, or copy quality should be directed to us at the address listed below. Questions concerning the content of the medical records should be posed to the health care provider.

Thank You,

1997

Dear

: is under contract with the .

the agency. The contract number is:

Our primary contact with he can reached at

The is conducting an investigation on a motor vehicle accident involving a seven month old girl which occurred in I would like to obtain a copy of her medical records. She was initially treated at and then airlifted to A signed medical release is attached. I don't have a date of birth, but do have her hospital number.

Please send them to the following address:

We are prepared to pay the normal costs associated with obtained medical records from

Thank you.

Sincerely,

THE STREET WAS ARREST OF

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#### **AUTHORIZATION FOR RELEASE OF**

I hereby voluntarily consent and give my written authorization to to release a copy of my medical records relating to my treatment of sustained in an I understand that my name and all other personal identification will be removed from these records, which are to be used only for research purposes. The research is sponsored by in its efforts to improve crash survivability and vehicle crashworthiness.

The sanitized records (with personal information deleted) will be analyzed shortly after receipt to determine the type and degree of injuries.

I acknowledge that I have read this form and all questions, by me, have been answered to my satisfaction, and I hereby acknowledge that I understand its contents.

Signature of Guardian/Parent

Date/

97

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		who hit windshield today (mechanism : comma
ţ		into driveway foot slipped for brake into accel.
		+ car hit house -> baby to windshield). Pt
		brought to local where first approp or then
		become lethangic + tx'd to in
		dispter 5 1V access 2° failed 1V + 1.0.
		attempts. In here mable to achieve IV
		access + pt brought to OR for cut-down.
		Pt reid Ofemoral line + (P) saphenous v.
		Ine + to CT sees + ICP bott. Apparent
		not dramed 20 venous access prob.
	İ	+ pt went for repeat head CT which showed
		(1) Subdwal Lamatona T (1) mass effect +
		2 4'S ( ) frontal bld ( ariginal Head CT
		showed depressed stull fx, tom sagital
		sinus, la (Doubdural + ? small (Boubdural)
		Abd CT -> No liver, splean, renal IX.
		Chest CT -> sit + in vol. in (L) chest.
		c showed ETT @ carina
		= good exp. + = focal infiltrate.
	PM	H: \$ prev med probs has had "cold" for lost w
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DATE TIME	PROB. NO.	PROBLEM NUMBER AND TITLE FORMAT: S = SUBJECTIVE O = OBJECTIVE A=ANALYSIS P = PLANS	1
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		+ friend of family. Demokers	1 ~
		PCP - Health Clinic to	1
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		PE: WH: 7.8 kg	1
P- 140's		I: D5 4NS = 20 m Ep KCI @ 32.c/ = 1x	Vmant.
BP 1115/65 (8	30)	· · · · · · · · · · · · · · · · · · ·	(=3mm)
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		abrasions. Face 5 abrasions /ecchymx	
		lungs: CTA(B) & ETT	
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		Abd: soft ND ABS OHSM	(
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		(R) saphenous vn.	
· · · · · · · · · · · · · · · · · · ·	<u> </u>	pobvious fx	
		Neuro; retracts all extr. to pain	ν.
		T beat ankle cloner (B)	
• :		Ratellar DTR's 1-2⊕ (B) Tx: PH rec'S 80cc pRBC's	
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		PT-14.5 INZ-1.47 PTT-29.4	
		F1B-137	
		ABG - 7.44 25 39C 17 -6 mb-30 2/5	tg-100%
		Meds: Dilantin 160mg IV x t then 25mg IV bid	
		Ancef 250mg 1V g8°	J

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				an lap in passenger front seat ?
İ				(B) subdural hematomas + form sag. sinus c
<u> </u>				ICP monitor (remaining <12) No evid.
\~ 				of chest, abd. trauma or bony fx's.
				Now on vent (wearing) + 1/0 BAT
				protocol.
				FEN: Pt on 1x maint will V lytes (BON) Cr
$\widehat{}$				Resp: Pt on vent @ rate 25 20/5 .4 32
				Will wear as tolerated (Jing ABG's) &
				try to mlize p CO2. Plan to try
				to extub. m AM.
				CVS: Stable BP's = good periph pertusion
				1D: On Ancel for ICP both prophylaxis
				Gl: A NO. Good BS & benign exam.
				Will monitor. No evid, for viscus
				perf. @fhis time.
				Novo: Pt & ICP remarking 8-12. Sitly
406				sedoded but eyes open - wate occas!
				Withdraws evenly to pain & grossly
	·			abn. exam pupils equal + reactive.
				Hene: Will follow Het.
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DATE OF OPERATION:

SURGEONS:

PREOPERATIVE DIAGNOSIS:

Large bilateral subdural hematoma.

POSTOPERATIVE DIAGNOSIS:

Same.

PROCEDURE:

Left frontal intracranial pressure monitor insertion.

Estimated blood loss: Minimal.

Drains: None. Complications: None.

This is a 7-month-old female who was INDICATIONS: in which she transferred to us after an sustained a left frontal depressed skull fracture and an apparent subsequent tear of the superior sagittal sinus. When the patient however, she was in shock arrived in the apparently from blood loss into this rather large subdural hematoma and vascular access was extremely difficult to obtain. The patient was where the pediatric surgeons first obtained vascular access. We initially considered removing the subdural, taken to the however, because the patient was obviously so hypovolemic, preoperatively, we felt it was not safe to begin any operations concerning the sagittal sinus without proper vascular access and instead opted to place an intracranial pressure monitor and evacuate the hematomas only if the intracranial pressure was high.

DESCRIPTION:

The patient was taken to the

emergently and placed in the supine position. C-spine precautions
were maintained as her C-spine had not yet been cleared and a small area
in the left frontal region was prepped with Hibiclens and draped in
sterile fashion. A small stab incision was made in the scalp to the
periosteum and a Camino drill was then used to drill a small bur hole in
the left frontal bone which was obviously somewhat mobile due to the
patient's fracture. The Camino ICP monitor was used for this insertion
and the bolt portion of the kit was then affixed to the patient's skull
without any difficulty and the fiberoptic transfuser was passed through
this bolt to approximately 6 cm and then back out to about 5 cm. The
initial ICP obtained was 12 mm of Mercury. The bolt was taped and
wrapped in place using sterile Kerlix and Kling dressing. The patient
tolerated this procedure very well. Because the intracranial pressure

DATE OF OPERATION:

was normal, it was decided that no evacuation was to be done and we continued with fluid resuscitation. Was present for the entirety of the procedure, including the critical part which was placement of the bolt. The placement of the patient's lines will be dictated separately by the pediatric surgeons. Following this procedure, the patient was in satisfactory condition and was taken postoperatively directly to the CT scanner for repeat CT and then to the in satisfactory condition.

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SURGEONS:

PREOPERATIVE DIAGNOSIS:

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- 1. Closed head injury.
- 2. Poor venous access.

POSTOPERATIVE DIAGNOSIS:

- 1. Closed head injury.
- 2. Poor venous access.

PROCEDURE:

- Left proximal saphenous cutdown with line placement.
- Right distal saphenous cutdown with line placement.

INDICATIONS:

Renee Henry is a 7-month-old female who is the victim of a motor vehicle accident. She was an unrestrained passenger in a vehicle which ran into the side of a house. She was launched into the front windshield. She was initially seen at then transferred to

Life Flight. By CT scan, she has large intracranial hemorrhages. She was brought to the for placement of venous access. Access was unable to be obtained by peripheral venous stick or by central venous access by the Seldinger technique.

DESCRIPTION:

The patient was sedated then sterilely prepped and draped in the usual fashion. A longitudinal cutdown was made over the left groin. The saphenous vein was identified and a #5 French central venous catheter was placed. It was then tunneled. Its placement was later confirmed by abdominal film. Concurrently, a cutdown was made on the distal right saphenous vein. This was performed just above the ankle. An 18 gauge intravenous was placed here and sewn in place. Both catheters were flushed and withdrew well at the time of operation. The wounds were closed with running nylon. The patient tolerated the procedure well and was taken to the for further resuscitation.

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ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway	Traffic	Safety
Administration		

4 Diver Count	Cara I Iaia Ni		S	SPECIAL STUDIE	S - INDICATO	JK2
Primary Sampl     Case Number	_	<u>AB14</u>	- has be	(/) each special studen completed; code and 0 for the special	1 for the chec	ked special
			6.	SS15 Administ	rative Use	4
3. Number of Ger Forms Submitt		<u> </u>	-   7. <u>-</u>	SS16 Pedestria	ın Crash Data St	udy <u>0</u>
4. Date of Accide (Month, Day, Ye		9 6	_	(Data for this specie in a separate file.)	ai study avallable	
5. Time of Accide	ent	1245	_ 8	SS17 impact Fi	ires	<u> </u>
Code repor	rted military time	of accident.	9	SS18 Unsafe D	Priver Actions	<u> </u>
NOTE: Mi Ur	idnight = 2400 nknown = 9999		10	SS19		<u> </u>
				NUMBER O	F EVENTS	
			1	umber of Recorded E	Events	Ø /
				THIS ACCIDENT		<del></del>
			С	ode the number of e	vents which occ	
		ACCIDE	С	ode the number of e	vents which occ	
	nat occurred in the rig	accident, code the lo	C in	ode the number of e		eurred
involved vehicle Accident Event	or object in the rig	accident, code the lo	ENT EVEN	ode the number of en this accident.  TS  red vehicle in the left  Vehicle Number	columns and the	other
involved vehicle		accident, code the lo	ENT EVEN  owest numbe  General Area of	ode the number of en this accident.  TS  red vehicle in the left  Vehicle Number or		other  General Area of
Accident Event Sequence Number	or object in the rig Vehicle Number	accident, code the look tht columnns. Class Of Vehicle	Community of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	ode the number of en this accident.  TS  red vehicle in the left  Vehicle Number	columns and the Class Of Vehicle	other  General Area of Damage
Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	ode the number of en this accident.  TS  red vehicle in the left  Vehicle Number or Object Contacted	Class Of Vehicle	other  General Area of Damage
involved vehicle  Accident Event Sequence Number  12. 0 1  19. 0 2	Vehicle Number	Accident, code the look the look the columns.  Class Of Vehicle  14. <u>\$\Phi I \ \ \Phi I \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </u>	General Area of Damage	ode the number of en this accident.  TS  red vehicle in the left  Vehicle Number or Object Contacted	Class Of Vehicle  17.	other  General Area of Damage  18. \$\frac{\psi}{2}\$

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

40. <u>0 5</u> 41. \_\_\_ 42. \_\_ 43. \_\_ 44. \_\_ 45. \_\_ 46. \_\_

		CODES FO	R CL	ASS OF VEH	IC	LE	
		0028010					
	Not a motor vehi					rge pickup truck (≤ 4,500	
		i (wheelbase < 254 cm)				her pickup truck (≤ 4,500	
(02)	Compact (wheell	pase ≥ 254 but < 265 cm)				known pickup truck type	
		eelbase ≥ 265 but < 278 cm)				her light truck (≤ 4,500 kg	
		ase ≥ 278 but < 291 cm)				known light truck type (≤	4,500 kgs GVWH)
	Largest (wheelba					known light vehicle type	
	Unknown passer						sed)(> 4,500 kgs GVWR
	Compact utility v			• • • •		her bus (> 4,500 kgs GV	WK)
		cle (≤ 4,500 kgs GVWR)				nknown bus type uck (> 4,500 kgs GVWR)	•
	•	agon (≤ 4,500 kgs GVWR)				actor without trailer	
	Unknown utility					actor-trailer(s)	
	Minivan (≤ 4,500	=		• •		actor-trailer(s) nknown medium/heavy tru	ick type
	Large van (s 4,5	oo kgs GVWR) ol bus (≤ 4,500 kgs GVWR)				nknown light/medium/heav	
		≤ 4,500 kgs GVWR)				otored cycle	, ,
		pe (≤ 4,500 kgs GVWR)				ther vehicle	
		truck (≤ 4,500 kgs GVWR)				nknown	
(30)	Compact pickop						
		CODES FOR GENER				AMAGE (GAD)	(T) Too
	APPLICABLE	(0) Not a motor vehicle		Right side	)		(T) Top (U) Undercarriage
	OTHER	(N) Noncollision		Left side			(9) Unknown
VEHI	CLES	(F) Front	(B)	Back			(9) UNKNOWN
TDC		(0) Not a motor vehicle	(L)	Left side			(C) Rear of cab
	ICABLE	(N) Noncollision			nit	t with cargo area	(V) Front of cargo area
	CLES	(F) Front				er or straight truck) (T)	Тор
		(R) Right side	(D)	Back (rea			(U) Undercarriage
							(9) Unknown
		CODEC FOR VEHICLE N	LIBAE	SED OD O		IECT CONTACTED	
(0.1	-30) — Vehicle N	CODES FOR VEHICLE N	CIVIE			Fence	
(01	-30) - Verlicle IV	umber		-		Wall	
Nor	ncollision					Building	
		rollover (excludes end-over-end)				Ditch or culvert	
(	32) Rollover – e	end-over-end		(61	)	Ground	
(	33) Fire or explo	sion				Fire hydrant	
	34) Jackknife				-	Curb	
(	35) Other intrau	nit damage (specify):				Bridge	
,	36) Noncollision	iniury		(68	5)	Other fixed object (specify	y1;
	38) Other nonco			(69	))	Unknown fixed object	
_				O 111 1		to No. 11 and Obline	
(	(39) Noncollision	<ul><li>details unknown</li></ul>				with Nonfixed Object	van ar other vehicle
Cal	linian With Eiwad	Ohioot		(70		Passenger car, light truck not in-transport	, van, or other verticle
	lision With Fixed (41) Tree (≤ 10 o			171		Medium/heavy truck or bu	is not in-transport
	(42) Tree (> 10 (					Pedestrian	33 Not III transport
	(43) Shrubbery of			•		Cyclist or cycle	
	(44) Embankmer					Other nonmotorist or con-	veyance
		pole or post (any diameter)		••	•		·
	·					Vehicle occupant	
	nbreakaway Pole					Animal	
		(≤ 10 cm in diameter)		•	•	Train	
		(> 10 cm but ≤ 30 cm in diameter	er)			Trailer, disconnected in tr	
		(> 30 cm in diameter)				Object fell from vehicle in	
(	(53) Pole or post	(diameter unknown)		(88)	5)	Other nonfixed object (sp	ecity):
(	(54) Concrete tra	affic barrier		(89	9)	Unknown nonfixed object	
	(55) Impact atte					·	
(		barrier (includes guardrail)		(98	3)	Other event (specify):	
	(specify):			100	31	Unknown event or object	
				(33	<u>,,                                    </u>	CHANGETT EVENT OF ODJECT	

•	nt of Transportation				
National Highway Traffic Administration	Safety GEN	ERAL VEH	ICLE FORM	NATIONAL ACCIDENT S CRASHWORTHINE	
Primary Samp     Case Numbe     Wehicle Numbe	oer	φ /	2. Speed Limit (000) No stat Code posted in kmph (999) Unknot	utory limit or statutory speed limit	<i>р</i> Ф Ф
VEH	ICLE IDENTIFICATION		mph X 1	.6093 = kmph	
(99) Unknow 5. Vehicle Make	two digits of the model year on (specify):	96 1	I3. Police Report (0) No alcoh (1) Yes alco (7) Not repo (8) No drive (9) Unknow	hol present rted r present	river <u>9</u>
NASS Data C Editing Manua (99) Unknow 6. Vehicle Mode Applicable co	I (specify):  SCORT  des are found in your collection, Coding and al.	) 13	Code actual v before first di (95) Test ref (96) None gi (97) AC test (98) No drive (99) Unknow	used ven performed, results unknow er present	<u>99</u> n
the back of th	fication Number		Driver (0) No othe (1) Yes oth (7) Not rep	er present	or <u>9</u>
Left justify; SI No VIN Unknown—C  9. Vehicle Special (0) No special (1) Taxi (2) Vehicle under (3) Vehicle under (4) Military (5) Police (6) Ambuland (7) Fire truck (8) Other (sp	ial Use (This Trip) al use sed as school bus sed as other bus ce or car ecify):	<u>φ</u>	16. Other Drug S (0) No spec (1) Drug(s) (2) Drug(s)  (3) Specimobtaine (8) No drive (9) Unknow  17. Driver's Zip C (00001) Driver no Code actual 5-di (99998) No drive	Specimen Test Result For Discimen test given not found in specimen found in specimen, (specifien test given, results under present vn if specimen test given  Code  ot a resident of U.S. or terrigit zip code er present	íy): known or no
C	FFICIAL RECORDS		(99999) Unknow	٧n	
(0) Not towed (1) Towed du (9) Unknown 11. Police Report Code to the n less than 0.5 (160) 159.5 (999) Unkno	ted Travel Speed earest kmph (NOTE: 000 moken) kmph) kmph and above	999	(2) Black (n (3) White (h (4) Black (h (5) America	on-Hispanic) on-Hispanic) dispanic) dispanic) dispanic) in Indian, Eskimo or Aleut Pacific Islander pecify):	<u>9</u> 

\_\_\_ mph X 1.6093 = \_\_\_ kmph

## **CODES FOR BODY TYPE**

## CDS APPLICABLE VEHICLES

#### **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

#### Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

#### Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

## Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

#### Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

### OTHER VEHICLES

#### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

### Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)(78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

## Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):\_\_\_\_\_
- (89) Unknown motored cycle type

#### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA	25 5	Roadway Surface Condition	1
40	Relation To Interchange Or Junction		1) Dry	<del></del>
19.	Relation To Interchange Or Junction  (0) Non-interchange area and non-junction		2) Wet	
	(1) Interchange area related	(	3) Snow or slush	
	(.,e.e.i.a.i.ge area related		4) Ice	
	Non-Interchange junctions		5) Sand, dirt, or oil	
	(2) Intersection related		8) Other (specify):	
	(3) Driveway, alley access related	(	9) Unknown	
	(4) Other junction (specify)			1
	(5) Unknown type of junction		ight Conditions	
	(a) Chichomi type of juniouoff		1) Daylight 2) Dark	
	(9) Unknown		3) Dark, but lighted	
			4) Dawn	
			5) Dusk	
20.	Trafficway Flow		9) Unknown	
	(0) Not physically divided (two way traffic) (1) Divided trafficusay median strip without positive			
	(1) Divided trafficway-median strip without positive barrier	27 4	Newsourkouis Conditions	ø
	(2) Divided trafficway-median strip with positive barrier		Atmospheric Conditions 0) No adverse atmospheric-related driving	<u>~</u>
	(3) One way traffic	(	conditions	
	(9) Unknown	(	1) Rain	
			2) Sleet/hail	
21.	Number Of Travel Lanes /	(	3) Snow	
	(1) One		4) Fog	
	(2) Two		5) Rain and fog	
	(3) Three		6) Sleet and fog	duct
	(4) Four	(	<li>Other (e.g., smog, smoke, blowing sand or etc.) (specify):</li>	Just,
	(5) Five	(	9) Unknown	
	(6) Six (7) Seven or more	<b>`</b>		
	(9) Unknown		Fraffic Control Device	<u> </u>
	\-,		0) No traffic control(s)	
22	Poadway Alignment	(	1) Traffic control signal (not RR crossing)	
	Roadway Alignment		Regulatory	
	(2) Curve right		2) Stop sign	
	(3) Curve left		3) Yield sign	
	(9) Unknown	(	4) School zone sign	
	Δ	(	5) Other regulatory sign (specify):	
23.	Roadway Profile	_	0) 14/	
	(1) Level		6) Warning sign (not RR crossing)	
	(2) Uphill grade (>2%)		7) Unknown sign 8) Miscellaneous/other controls including RR	
	(3) Hill crest	'	controls (specify):	
	(4) Downhill grade (>2%)		22	
	(5) Sag (9) Unknown	(	9) Unknown	
	(o) Chanowii			
24	Roadway Surface Type			~
			Fraffic Control Device Functioning	<u>Ø</u>
	(1) Concrete (2) Bituminous (asphalt)		0) No traffic control device	
	(2) Brick or block	(	Traffic control device not functioning (specify)	
	(4) Slag, gravel, or stone		(opcony)	
	(5) Dirt	(	2) Traffic control device functioning properly	
	(8) Other (specify):		9) Unknown	
	(9) Unknown			

PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30. Driver's Distraction/Inattention To Driving	(10) Over the lane line on left side of travel lane
(Prior To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane
(00) No driver present	(12) Off the edge of the road on the left side
(01) Attentive or not distracted	(13) Off the edge of the road on the right side
(02) Looked but did not see	(14) End departure
Distractions	(15) Turning left at intersection
(03) By other occupant(s), (specify):	(16) Turning right at intersection
PASSENGER .	(17) Crossing over (passing through) intersection .(18) This vehicle decelerating
(04) By moving object in vehicle (specify):	(19) Unknown travel direction
(OE) While telling of links in the collular than (OE)	(10) Chikhowh travel direction
(05) While talking or listening to cellular phone (specify	Other Motor Vehicle In Lane
location and type of phone):	(50) Other vehicle stopped
(06) While dialing cellular phone (specify location and	(51) Traveling in same direction with lower steady
type of phone):	speed
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(52) Traveling in same direction while decelerating
(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
	(55) In crossover
(09) While using other device/object in vehicle (specify):	(56) Backing (59) Unknown travel direction of other motor vehicle in
(10) (10)	lane
(10) Sleepy or fell asleep	iano
(11) Distracted by outside person, object, or event (specify):	Other Motor Vehicle Encroaching Into Lane
(Specify): PASENGER	(60) From adjacent lane (same direction)—over left
(12) Eating or drinking	lane line
(13) Smoking related	(61) From adjacent lane (same direction)—over right
(97) Distracted/inattentive, details unknown	lane line
(98) Other, distraction (specify):	(62) From opposite direction—over left lane line
	(63) From opposite direction—over right lane line
(99) Unknown	(64) From parking lane
31. Pre-Event Movement (Prior to <u>φ 5</u>	(65) From crossing street, turning into same direction
Recognition of Critical Event)	(66) From crossing street, across path
(00) No driver present	(67) From crossing street, turning into opposite direction
(01) Going straight	(68) From crossing street, intended path not known
(02) Decelerating in traffic lane	(70) From driveway, turning into same direction
(03) Accelerating in traffic lane	(71) From driveway, across path
(04) Starting in traffic lane	(72) From driveway, turning into opposite direction
(05) Stopped in traffic lane	(73) From driveway, intended path not known
(06) Passing or overtaking another vehicle	(74) From entrance to limited access highway
(07) Disabled or parked in travel lane (08) Leaving a parking position	(78) Encroachment by other vehicle—details unknown
(09) Entering a parking position	Destantion D. L. C. C. C. C. C. C. C. C. C. C. C. C. C.
(10) Turning right	Pedestrian, Pedalcyclist, or Other Nonmotorist
(11) Turning left	(80) Pedestrian in roadway
(12) Making a U-turn	(81) Pedestrian approaching roadway (82) Pedestrian—unknown location
(13) Backing up (other than for parking position)	(83) Pedalcyclist or other nonmotorist in roadway
(14) Negotiating a curve	(specify):
(15) Changing lanes	(84) Pedalcyclist or other nonmotorist approaching
(16) Merging	roadway, (specify):
(17) Successful avoidance maneuver to a previous	(85) Pedalcyclist or other nonmotorist—unknown
critical event	location (specify):
(97) Other (specify):	Object on Asiant
(99) Unknown	Object or Animal
1	(87) Animal in roadway
32. Critical Precrash Event	(88) Animal approaching roadway (89) Animal—unknown location
This Vehicle Loss of Control Due To:	(90) Object in roadway
(01) Blow out or flat tire	(91) Object approaching roadway
(02) Stalled engine	(92) Object—unknown location
(03) Disabling vehicle failure (e.g., wheel fell off)	(98) Other critical precrash event (specify):
(specify):	
(04) Non-disabling vehicle problem (e.g., hood flew up)	(99) Unknown
(specify):(05) Poor road conditions (puddle, pot hole, ice, etc.)	•
(specify):	
(06) Traveling too fast for conditions	
(08) Other cause of control loss (specify):	
(09) Unknown cause of control loss	

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating	7	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown
(11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):  (99) Unknown  34. Pre-Impact Stability (0) No driver present (1) Tracking	<u>/</u>	36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):  (99) Unknown
<ul> <li>(2) Skidding longitudinally—rotation less than 30 degrees</li> <li>(3) Skidding laterally—clockwise rotation</li> <li>(4) Skidding laterally—counterclockwise rotation</li> <li>(7) Other vehicle loss-of-control (specify):</li> <li>(9) Precrash stability unknown</li> </ul>		(99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

OCCUPANT RELATED	44. Vehicle Cargo Weight $\phi, \phi$ $\phi$ 0
37. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown
38. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	Source: INSPECTION PHOTOS  ROLLOVER DATA
39. Number of Occupant Forms Submitted $\frac{\varphi}{3}$	45. Rollover (00) No rollover (no overturning)
AIR BAG RELATED  40. Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify):  (98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown  46. Rollover Initiation Type (00) No rollover
41. Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed  Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed  Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed (8) Air bag(s) deployed, details unknown (9) Unknown  42. Air Bag(s) Deployment, Other Than First Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown  Specify type of "other" air bag present:	(01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify):  (98) Rollover—end-over-end (99) Unknown rollover initiation type  47. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (8) Rollover—end-over-end (9) Unknown  48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)  49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (6) Non-contact rollover forces (specify):
Vehicle Curb Weight  Code weight to nearest 10 kilograms.  (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown  Ibs X 4536 = 1 4 4 kgs	(9) Unknown  50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rollover—end-over-end (9) Unknown roll direction

# CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall (59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(32) No rollover impact initiation (end-over-end)	(62) Fire hydrant
(34) Jackknife	(63) Curb 1
(0.) 02011111110	(64) Bridge
Collision With Fixed Object	(68) Other fixed object (specify):
Collision With Fixed Object (41) Tree (≤ 10 cm in diameter)	
(42) Tree (> 10 cm in diameter)	(69) Unknown fixed object
(43) Shrubbery or bush	
(44) Embankment	Collision with Nonfixed Object
` '	(70) Passenger car, light truck, van, or other vehicle
(45) Breakaway pole or post (any diameter)	not in-transport
	(71) Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
<ul><li>(51) Pole or post (&gt; 10 cm but ≤ 30 cm in diameter)</li><li>(52) Pole or post (&gt; 30 cm in diameter)</li></ul>	(78) Trailer, disconnected in transport
(52) Pole or post (> 30 cm in diameter)	(79) Object fell from vehicle in-transport
(53) Pole or post (diameter unknown)	(88) Other nonfixed object (specify):
(54) Concrete traffic barrier (55) Impact attenuator	(89) Unknown nonfixed object
(56) Other traffic barrier (includes guardrail) (specify):	(98) Other event (specify):
(specify).	(99) Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	HIGHEST DELTA V
<ol> <li>Rear Override/Underride (this Vehicle) <u>Φ</u></li> <li>(0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride</li> </ol>	58. Basis for Total (Resultant) Delta V / (highest)  (00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm  Delta V Not Calculated
<ul><li>(4) 1st CDC</li><li>(5) 2nd CDC</li><li>(6) Other not automated CDC (specify):</li></ul>	(04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
<ul><li>(7) Medium/heavy truck or bus override (of any configuration)</li><li>(9) Unknown</li><li>HEADING ANGLE AT IMPACT FOR</li></ul>	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction
HIGHEST DELTA V	program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override
53. Heading Angle For This Vehicle 9 9 8	(09) Yielding object
54. Heading Angle For Other Vehicle 998	(10) Overlapping damage (11) All vehicle and collision conditions are within
RECONSTRUCTION DATA	scope of one of the acceptable reconstruction
55.Towed Trailing Unit  (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	programs, but there is insufficient data available.  (98) Other, (specify):
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	-
<ul> <li>57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted &lt;45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):</li> <li>(9) Unknown</li> </ul>	
• •	

COMPUTER GENERA	LD OTAGIT SEVERIT
59. Total Delta V <u>φ 2 φ</u> Nearest kmph (highest)	63. Impact Speed  Highest  9 9 8
Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown  Highest  OLOngitudinal Component of + Delta V  Nearest kmph (highest)	Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown  Highest + 61. Lateral Component of Delta V \phi \phi \phi \phi	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown  62. Energy Absorption	Highest 65. Barrier Equivalent Speed  19.4 Nearest kmph (highest) Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? [] YES [] NO
IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [] YES [] NO

ESTIMATED DELTA V	VEHICLE INSPECTION					
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded  Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph  Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify):  (3) Complete inspection					

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

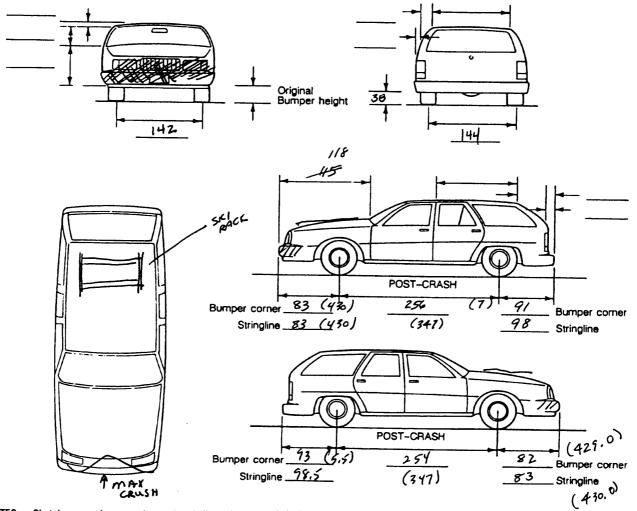
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

National Highway Traffic Safety Administration		E	EXTERIOR VEHICLE FORM				N.	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM			
Primary Sampling Unit Number		nber		3	. Vehicl	e Numb	er			_φ	
2. Case	Number - Stratum	A	B 14								
			VEHICLE	IDENT	IFICAT	ION					
VIN/_	FASP	15	J X	r W	× ,	<i>,</i>	یر یر	×	Model Y	ear 9	6
		ORD									
				OCATO							
Locate the	e end of the damage ed axle for side impac	with respect	to the vehic	le longitu	ıdinal ce	nter line	or bump	per corne	er for en	d impact	ts or an
Specific Imp	act No. Location	of Direct Dama	ge		Locatio	n of Field L	•		Location of	of Max Cru	sh
	Q R &	MPER COR	NEC -		<del></del>				59. 3		
		7,20	,,,,,,					-	71. 5	<del></del>	
		CRU	SH PROF	ILE IN	CENTI	METER	RS	t			
l i	Measure C1 to C6 fro Free space value is d ndividual C locations. etc. Record the value Use as many lines/co	efined as the This may in for each C-	e distance be nclude the fo measureme	etween th ollowing: I ent and m	e baseli bumper aximum	ne and t lead, but crush.	he origin mper tap	al body	contour 1	aken at	the
Specific	Plane of Impact		Damage	Field						T	
Impact Number	C-Measurements	Width (CDC)	Max Crush	L	C,	C <sub>2</sub>	C <sub>3</sub>	C,	C <sub>5</sub>	C <sub>6</sub>	±D
/	BUMPER	80.5	29.4	127'	z.5	5. Ø	15.4	21.5	8.5	z. Ø	+32.2
	- FREE SPACE		5		-11.5	-5.0	-1.5	-1.5	-5.4	-11.5	7,73.
	+ STAND ADJ.		+ 3		+3	+3	+3	+ 3	+3	+3	<del></del>
	FINAL		31.5		ψ	3	16.5	23	6.5	φ	
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#### VEHICLE DAMAGE SKETCH TIRE-WHEEL DAMAGE **ORIGINAL SPECIFICATIONS** WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or restricted deflated Wheelbase 25¢ cm displaced rear axles only) RF ± 433 Overall Length cm RF Z RF LF ± 169 LF Z LF Maximum Width RR ± cm RR Z RR 2 1109 Curb Weight ka LR 2 Within ± 5 degrees 143 Average Track cm (1) Yes (2) No (8) NA (9) Unk. DRIVE WHEELS Front Overhang cm FWD RWD 4WD Rear Overhang cm TYPE OF TRANSMISSION 145 Undeformed End Width Approximate 10 285 cm Cargo Weight SKI RACK kg **B** Automatic ☐ Manual Engine Size: cyl./displ. 1.9 4 14

### **MEASUREMENTS IN CENTIMETERS**

VEHICLE INSPECTED USING SPECS FOR SEDAN — APONSTED ON ACT I



TES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

	•		CDC W	ORKSHE	ET				
		C	ODES FOR O	DBJECT CON	TACTED				
, ,	— Vehicle Num	ber		(58)					
	Overturn — rol	lover (excludes e	nd-over-end)	(59) (60)	Ditch or o	culvert			
(33)	Rollover—end-over-end Fire or explosion			(61) (62)	Fire hydrant				
(34) (35)		damage (specify	<b>)</b> :		Bridge				
(36)				_ (68)		ed object (sp			
(38)					,	n fixed object			
(39)		details unknown			Passeng		ruck, van, or	other vehicle	
(41)	n With Fixed Obj Tree (≤ 10 cm	in diameter)				heavy truck o	or bus not in-t	transport	
(43)	Tree (> 10 cm Shrubbery or b			(73)	Pedestria Cyclist or	rcycle			
(44)						nmotorist or	conveyance		
		e or post (any dia	ameter)	(76)	Animal	Vehicle occupant Animal			
Nonbreakaway Pole or Post (50) Pole or post (≼ 10 cm in diameter)			(77) (78)		Train Trailer, disconnected in transport				
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter) (52) Pole or post (> 30 cm in diameter)				Object fell from vehicle in-transport Other nonfixed object (specify):					
		ameter unknowr		(89)		n nonfixed ob			
(54) (55)	Concrete traffic			(98)		ent (specify):			
(56)	Other traffic ba	rrier (includes gu				n event or ob			
	(0)				- CHANGIN		,001		
		DEFORMA	TION CLASS	IFICATION BY					
Accident Event		(1) (2)	la a a a a a a a a a a a	(2)	(4) Specific	(5) Specific	(6)	(7)	
Sequence		Direction of Force	Incremental Value of	Deformation	Longitudinal or Lateral	Vertical or Lateral	Type of Damage	(7) Deformation	
Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent	
φ/	- <del> </del>		φ φ	<u> </u>	=	<u> </u>	-W	 φ Z	
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COLLISION DEFORMATION CLASSIFICATION									
HIGHEST	DELTA "V"								
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent		
4. <u> </u>	5. <u>59</u>	6	7. <u> </u>	8. <u>Z</u>	9 <u>. E</u>	10. <u>/</u>	11.		
Second Hiç	Second Highest Delta "V"								
12	13	14	15	16	17	18	19		
		CRUS	H PROFILE	IN CENTIM	ETERS				
	The crush pring the app	rofile for the dar ropriate space I	mage described below. (ALL ME	in the CDC(s) a ASUREMENTS	above should be SARE IN CENTI	documented METERS.)			
HIGHEST [	DELTA "V"								
20. L	21. 				C <sub>5</sub> (	C <sub>6</sub> 2	22. ±D		
145	φφφ	ΦΦ3	417 4	<u> </u>	φ7 φ	φ φ <u>-</u>	φ 3 z		
Second Hig	hest Delta "V"								
23. 	24. 			C <sub>4</sub>	C <sub>5</sub> (	<u>C<sub>6</sub> </u>	25. ±D		
						<u>+</u> =			
(Coded vimpact is (250) 2 (998) N	med End Width when highest se s an end plane ir Code to the near 250 centimeters No highest sever Unknown	everity mpact.) rest centimeter	1 4 <u>5</u>	(650) ( (999) (		or more	2 5 4		
(For high	amage Width nest severity imp ode to theneare: 250 centimeters Jnknown	est centimeter	φ <u>8</u> Ι	(185) (999)	Average Track \ Code to the near centimter 185 centimeters Unknowniinches X 2	or more	centimeters		

	FUEL SYSTEM
30. Are CDCs Documented but Not Coded on The Automated File?  (0) No  (1) Yes	35. Location of Fuel Tank-1 Filler Cap  36. Location of Fuel Tank-2 Filler Cap  (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane
31. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown  32. Is This A Multi-Stage Manufactured Vehicle	<ul> <li>(3) Aft of center of the rear wheels (rear axle) on right side plane</li> <li>(4) Forward of center of the rear wheels (rear axle) on left side plane</li> <li>(5) Forward of center of the rear wheels (rear axle) on right side plane</li> <li>(6) Over the center of the rear wheels (rear axle) on left side plane</li> <li>(7) Over the center of the rear wheels (rear axle)</li> </ul>
And/Or A Certified Altered Vehicle?  (0) No post manufacturer modifications  (1) Yes - post manufacturer modifications  (specify):  (Include photograph of CERTIFICATION PLACARD in case report)  (9) Unknown if vehicle is modified	on right side plane (8) Other (specify):
FIRE OCCURRENCE	39. Location of Fuel Tank-1
33. Fire Occurrence (0) No fire  Yes, fire occurred (1) Minor (2) Major (9) Unknown	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown  41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

43.	Leakage Location of Fuel System-1		•	s Vehicle Equipped With More Than Fuel Tanks?	<u>\$</u>
44.	Leakage Location of Fuel System-2	φ		No (one or two tanks only)	
	(0) No fuel tank				
	(1) No fuel leakage			More Than Two Tanks	
				Yes – <u>no damage</u> to any tank or filler	
	Primary Area Of Leakage			cap and <u>no fuel system leakage</u>	
	(2) Tank			Yes - no damage to any tank or filler	
	(3) Filler neck			cap but there is fuel system leakage	
	(4) Cap		· ·	(specify leakage location):	
	<ul><li>(5) Lines/pump/filter</li><li>(6) Vent/emission recovery</li></ul>		(3)	Yes <u>damage</u> to an additional tank or	<del></del>
	(8) Other (specify):			filler cap and there is fuel system leakage	
	(9) Unknown	····		(specify the following):	
	\-,		}	Type of tank	
		4.		I ank location	
<b>45</b> . I	Fuel Type-1	41	l	Filler cap location	
		A 4:	1	Tank damage	
46.	Fuel Type-2	Φ Ψ		Location of leakage	
	Single Fiel Time			Type of fuel Unknown if more than two tanks	
	Single Fuel Type (00) No fuel tank		(9)	Unknown if more than two tanks	
	(01) Gasoline				
	(02) Diesel				
	(03) CNG (Compressed Natural Gas)		]	COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also			<del>.</del>	
	known as Propane				
	(05) LNG (Liquid Natural Gas)				_
	(06) Methanol (M100 or M85)				
	(07) Ethanol (E100 or E85)				
(	(08) Other (Hydrogen or others) (specify):				
1	Electric Powered or Electric/Solar				<u> </u>
	Powered Vehicles				
	(10) Lead Acid Battery				<del></del>
	11) Nickel-Iron Battery				
(	12) Nickel-Cadmium Battery				<del>_</del>
	13) Sodium Metal Chloride Battery				<del></del>
	14) Sodium Sulfur Battery		1		
(	18) Other (Specify):	<del></del>			
(	98) Other Hybrid (specify):				······································
,	99) Unknown fuel type			<del></del>	
(	99) Unknown fuel type				
			<u> </u>		
	*** STOP: IF THE CDS A	PPLICABL	E VEHICI	LE WAS NOT TOWED ***	
		(CV)	10=0)		
		100	· U-U)		

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

## RM

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration INIERIOR V	EHICLE FO
Primary Sampling Unit Number	
2. Case Number - Stratum AB 14	Type of Wind
3. Vehicle Number	15. WS1
INTEGRITY	20. BL 2 21
1 Passenger Compartment Integrity (00) No integrity loss  Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (198) Other combination of above (specify):	(0) No glaz (1) AS-1 (2) AS-2 (3) AS-3 (4) AS-2 (5) AS-3 (6) AS-14 (7) Glazing (8) Other ( (9) Unknow Window Prec 23. WS / 2 28. BL / 29  (0) No glaz (1) Fixed (2) Closed (3) Partiall (4) Fully op
Door, Tailgate or Hatch Opening 5. LF/_ 6. RF/_ 7. LR/_ 8. RR/_ 9. TG/H/_	(7) Glazing (9) Unknow Glazing Dam 31. WS_2-3
(0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify):  (9) Unknown	36. BL / 37  (0) No glaz (1) No glaz (2) Glazing (3) Glazing (4) Glazing forces (5) Glazing
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(6) Glazing (7) Glazing (9) Unknov
10. LF <u>Φ</u> 11. RF <u>Φ</u> 12. LR <u>Φ</u> 13. RR <u>Φ</u> 14. TG/H <u>Φ</u>	Glazing Dam
(0) No door/gate/hatch or door not opened	39. WS4
Door, Tailgate or Hatch Came Open During Collision  (1) Door operational (no damage)  (2) Latch/striker failure due to damage  (3) Hinge failure due to damage  (4) Door structure failure due to damage  (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage  (6) Latch/striker and hinge failure due to damage  (8) Other failure (specify):	44. BL
(9) Unknown	

CRASHWORTHINESS DATA SYSTEM

### **GLAZING**

ow/Windshield Glazing

6. LF 2 17. RF 2 18. LR 2 19. RR 2

. Roof 4 22. Other 2

- zing
- Laminated
- Tempered
- Tempered-tinted (original)
- Tempered-with after market tint
- -- Tempered-tinted (with additional after market tint)
- --- Glass/Plastic
- g removed prior to accident
- specify):

rash Glazing Status

4. LF 2 25. RF 2 26. LR 2 27. RR 2

. Roof ♥ 30. Other /

- zing
- y opened
- pened
- g removed prior to accident

age from Impact Forces

2. LF / 33. RF / 34. LR / 35. RR /

'. Roof<u></u> 4 38. Other /

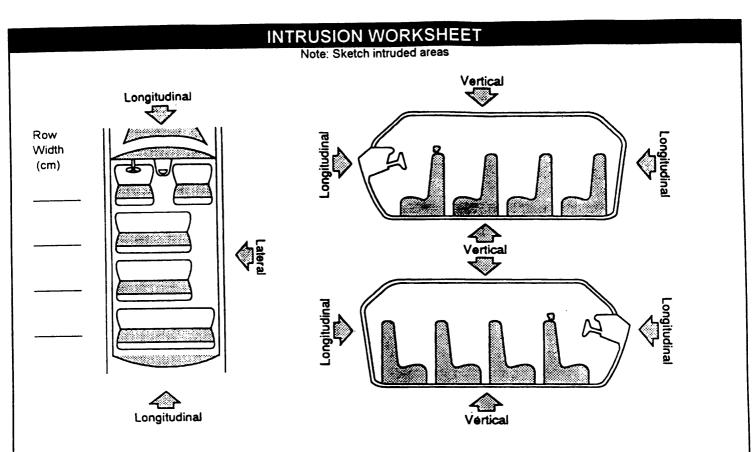
- zing damage from impact forces
- g in place and cracked from impact forces
- g in place and holed from impact forces
- g out-of-place (cracked or not) and not holed from impact
- g out-of-place and holed from impact forces
- g disintegrated from impact forces
- g removed prior to accident
- wn if damaged

age from Occupant Contact

40. LF<u>/</u> 41. RF<u>/</u> 42. LR<u>/</u> 43. RR <u>/</u>

5. Roof  $\frac{\varphi}{}$  46. Other  $\frac{1}{}$ 

- upant contact to glazing
- g contacted by occupant but no glazing damage
- in place and cracked by occupant contact
- in place and holed by occupant contact
- g out-of-place (cracked or not) by occupant and not holed by occupant contact
- out-of-place by occupant contact and holed by occupant
- (7) Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

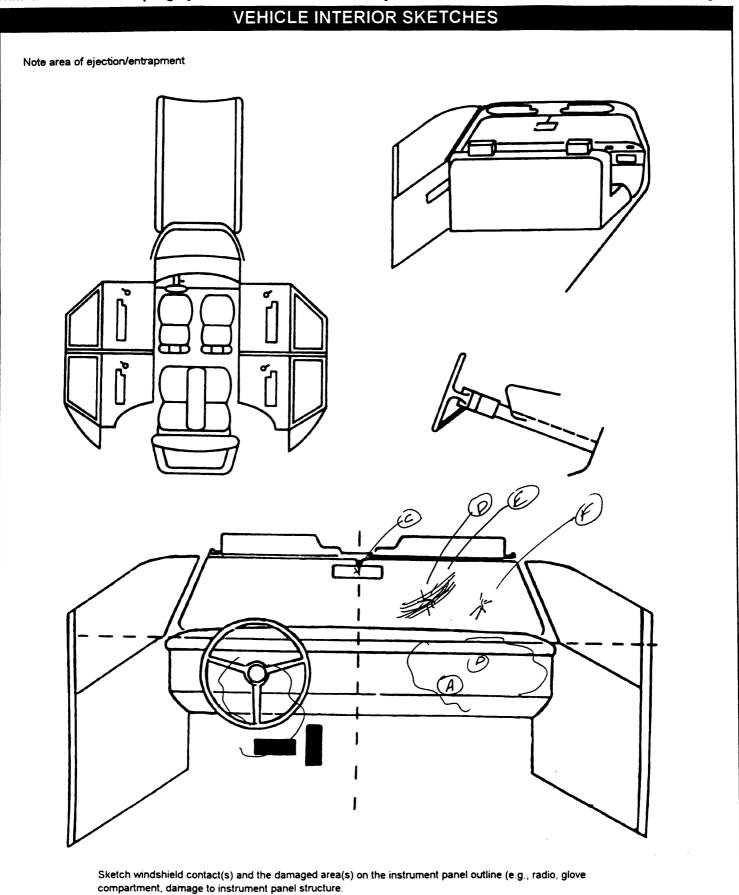


LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	All Measurements Are In Cent INTRUDED — VALUE	imeters) INTRUSION =	DOMINANT CRUSH DIRECTION
			- /	=	
			-/	=	
			7	=	
				=	
				=	
			-	=	
				=	
				=	
				=	
				=	
				=	
			_	=	
				=	
				=	
				=	

#### OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Interior Components **Dominant** (01) Steering assembly Crush Magnitude Location of Intruding Direction of Intrusion (02) Instrument panel left Intrusion Component (03) Instrument panel center (04) Instrument panel right 1st 47.\_\_\_\_ 48.\_\_ (05) Toe pan 49. 50. (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 53 (09) D-pillar 2nd 51. 52. (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side) (12) Side panel - rear of the B-pillar 57. (13) Roof (or convertible top) 56. (14) Roof side rail (15) Windshield (16) Windshield header 60. (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 64. 65. 66. (21) Second seat back (22) Third seat back (23) Fourth seat back (24) Fifth seat back /68. **69**. \_\_\_ 70.\_\_\_\_ (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 72.\_\_\_\_ 73.\_\_\_ 74.\_ Exterior Components (30) Hood (31) Outside surface of this vehicle (specify): 8th 75. 76. 77.\_\_\_ 78.\_\_\_ (32) Other exterior object in the environment (specify): (33) Unknown exterior object 80. 81. 9th (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 84. 85. 86. (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat **Fourth Seat** (2) ≥ 8 centimeters but < 15 centimeters (41) Left (11) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (43) Right (13) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (98) Other enclosed (21) Left (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right

(7) Catastrophic (9) Unknown

STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type/	92. Odometer Reading <u>4 2 7</u> ,000
(1) Fixed column (2) Tilt column	kilometers Code to the nearest 1,000 kilometers
(3) Telescoping column (4) Tilt and telescoping column	(000) No odometer
(8) Other column type (specify):	(001) Less than 1,500 kilometers (500) 499,500 kilometers or more
(9) Unknown	(999) Unknown  16 967 miles x 1 6093 = 27 3 φ 5 kilometers
(9) CHAILOWH	
88. Tilt Steering Column Adjustment	Source: VEH. INSPECTION
(0) No tilt steering column	93. Instrument Panel Damage from
(1) Full up (2) Between full up and center	Occupant Contact?(0) No
(3) Center	(1) Yes
(4) Between center and full down (5) Full down	(9) Unknown
(9) Unknown	94. Type of Knee Bolster Covering
•	(1) Padded
89. Telescoping Steering Column Adjustment (0) No telescoping steering column	(2) Rigid plastic (8) Other (specify):
(1) Full back	(9) Unknown
(2) Between full back and midpoint (3) Midpoint	95. Knee Bolsters Deformed from
(4) Between midpoint and full forward	Occupant Contact?/_
(5) Full forward (9) Unknown	(0) No knee bolster (1) No deformation
(c) cinicin	(2) Yes - deformation (9) Unknown
90. Steering Rim/Spoke Deformation	
Code actual measured deformation to the nearest centimeter	96. Did Glove Compartment Door Open During Collision(s)?
(00) No steering rim deformation	(0) No glove compartment door (1) No - door did not open
(01-14) Actual measured value in centimeters (15) 15 centimeters or more	(2) Yes - door opened
(98) Observed deformation cannot be measured	(9) Unknown
(99) Unknown	97. Adaptive (Assistive) Driving Equipment
91. Location of Steering Rim/Spoke $\underline{\phi} \ \underline{\phi}$	(0) No adaptive driving equipment (1) Adaptive driving equipment installed
Deformation	(Check all that apply.) [] Hand controls for braking/acceleration
(00) No steering rim deformation	[ ] Steering control devices (attached to OEM
Quarter Sections	steering wheel [] Steering knob attached to steering wheel
(01) Section A (02) Section B	Low effort power steering (unit or device)
(03) Section C (04) Section D	ij Replacement steering wheel (i.e., reduced diameter)
Lower	[] Joy-stick steering controls [] Wheelchair tie-downs
Half Sections (05) Upper half of rim/spoke	[] Modification to seat belts (specify):
(06) Lower half of rim/spoke (07) Left half of rim/spoke	[] Additional or relocated switches (specify):
(08) Right half of rim/spoke	
(09) Complete steering wheel collapse	[] Wall-mounted head rest (used behind
(10) Undetermined location	wheelchair) [ ] Other adaptive device (specify):
(99) Unknown	
	(9) Unknown



Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

ional Acc	dent oumpning			ata System: Interior Vehicle F CUPANT CONTACT		Page
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical E	vidence	Confidence Level of Contact Point
Α	43	<b>62</b>	KNEE	CLUTH THANSPEL		/
В	18\$	ØZ.	FACE	BLOUD		3
С	642	42	L. HAND	CARCED		2
D	401	øz	п	SMEAR/CRACKED		2
E	441	42	-	^		2
F	φψι	Ψ3	14520	CRACK		2
G						
Н						
1						
J						
K						
L						
М						
N						
06) Steering of codes (07) Steering (	wheel rim wheel hub/spoke wheel (combination 004 and 005) column,transmission ever, other	LEFT SIDE (051) Left side excludin armrest (052) Left side (053) Left A (4) (054) Left B-p	e interior surface, g hardware or s e hardware or armrest M/A2)-pillar	INTERIOR (151) Seat, back support (152) Belt restraint webbing/buckle (153) Belt restraint B-pillar or door frame attachment point (154) Other restraint system component (specify):  (155) Head restraint system	REAR (301) Backlight (rea (302) Backlight stor door, etc. (303) Other rear objection  ADAPTIVE (ASSISTI EQUIPMENT (401) Hand controls braking/accel	age rack, ject (specify): VE) DRIVING

(000)	Steering wheel (combination
	of codes 004 and 005)
(007)	Steering column,transmission
	selector lever, other
	attachment
(800)	Cellular telephone or CB radi
(009)	Add on equipment(e.g.,
	tapedeck, air conditioner)
(010)	Left instrument panel and
	below
(011)	Center instrument panel and

- below (012) Right instrument panel and below
- (013)Glove compartment door

(014)Knee bolster

- (015) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (016) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only) (017) Windshield reinforced by
- exterior object, (specify):
- (019) Other front object (specify):

(051)	Left side interior surface,
	excluding hardware or
	armrests
(052)	Left side hardware or armrest
(053)	Left A (A1/A2)-pillar
(054)	Left B-pillar
(055)	Other left pillar (specify):
(056)	Left side window glass
(057)	Left side window frame
(058)	Left side window sill
(059)	Left side window glass
	including one or more of the
	following: frame, window sill,
	A (A1/A2)-pillar, B-pillar, or
	roof side rail.
(060)	Other left side object

(specify):

### RIGHT SIDE

- (101) Right side interior surface, excluding hardware or armrests
- (102) Right side hardware or armrest
- (103)Right A (A1/A2)-pillar (104) Right B-pillar

(108)

- (105) Other right pillar (specify):
- (106)Right side window glass (107) Right side window frame
- (109)Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.

Right side window sill

(110) Other right side object (specify):

- Other occupants (specify):
- (161) Interior loose objects
- (162) Child safety seat (specify):
- (163) Other interior object (specify):

### AIR BAG

- (170) Air bag-driver side
- (175) Air bag compartment cover-driver side
- Air bag-passenger side
- (185) Air bag compartment
- cover-passenger side
- (190) Other air bag (specify)
- (195) Other air bag compartment cover (specify)

### ROOF

- (201) Front header
- (202) Rear header
- (203) Roof left side rail (204) Roof right side rail
- (205) Roof or convertible top

#### **FLOOR**

- (251) Floor (including toe pan)
- (252) Floor or console mounted transmission lever, including console
- (253) Parking brake handle
- (254) Foot controls including parking brake

- (attached to OEM steering wheel)
- (403) Steering knob attached to
- steering wheel Replacement steering wheel (i.e., reduced diameter)
- Joy stick steering controls
- Wheelchair tie-downs (407)
- Modification to seat betts, (408)(specify):
- (409) Additional or relocated switches, (specify):
- (410) Raised roof
- (411) Wall mounted head rest (used behind wheel chair)
- (412) Other adaptive device (specify):

#### CONFIDENCE LEVEL OF CONTACT POINT

- Certain (1)
- Probable
- (2) Possible (3)
- Unknown

		MANUA	L RESTR	AINTS		
NOTES:	systems should be assessed during	ch seat position ng the vehicle ins	n in the vehicle. spection then co	The attribute for to ded on the Occup	he variable ant Assess	may be found below. Restraint ment Form.
	If a Child safety seat is present, en	code the data o	n the back of th	s page.		
	If the vehicle has automatic restrai	nts available, en	code the appro	oriate data on the b	oack of the	previous page.
$\overline{}$		Lef		Center		Right
	Availability	3			/	3
_ }	Evidence of usage		63		/	ø <i>3</i>
F	Used in this crash?		43	/		ψφ
Ŕ		1				Ψ
R S T	Proper Use		<del>/</del>			φ
' 1	Failure Modes	<del> </del>	<u>(</u>			q.
	Anchorage Adjustment	<u> </u>	9	3		4
l	Availability	4				04
s	Evidence of usage	<del> </del>	4	93		
SECOZO	Used in this crash?		ρ	φ		φ
ö	Proper Use	1	4	φ		φ
Й	Failure Modes		P	Ф		φ
ט	Anchorage Adjustment		/	q		+
	Availability					
_ \	Evidence of usage					
O T	Used in this crash?					
н	Proper Use					
E R	Failure Modes	+ / /				
R		<del>                                     </del>				
	Anchorage Adjustment					Upper Anchorage
Manual (Active) Belt System Availability  (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available - type unknown (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown  Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperable (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt worn are (specify): (9) Unknown  Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperable (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used - type unknown (06) Other belt used (specify): (1) No manual (specify): (2) Torn webbit included) (3) Broken bucch (d) Upper anche (specify): (4) Upper anche (specify): (5) Other anche				er arm ind back or seat than one person nen ulder belt used afety seat manual belt  des During r not available s) ed webbing not plate arated	Adjustmer (0) No (1) No sho  Adj And (2) In f (3) In r (4) In f (5) Pos (9) Uni	
(12) (13) (14)	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	(6) Brok	cify): ten retractor bination of above	(specify):		
(15)	safety seat Belt used with child safety seat - type		er manual belt fail			
(18)	unknown Other belt used with child safety seat (specify):	(9) Unk	nown			
(99)	Unknown if bett used					

### **AUTOMATIC RESTRAINTS**

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

### **AIR BAGS**

		Left Front	Right Front	Other
F	Availability/Function	1	1	
Ŕ	Deployment	1	1	
T	Failure	1	/	1

### Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

#### Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

### Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

# Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

# Air Bag(s) Deployment, <u>Other</u> Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an "other" air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

### **AUTOMATIC BELTS**

		Left	Right
FIRST	Availability/Function	/	/
	Use	/	/
	Туре	2	2
	Proper Use	`/	/
	Failure Modes	,	/

### Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

#### Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

### Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

#### Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

# Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used property
- (2) Automatic belt used properly with child safety seat

### Automatic Belt Used Improperty

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly

with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

### Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

### FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?	/	1
Flaps open at tear points?	2	2
Flaps damaged?	/	1
Air bag damaged?	ØI	Φ1
Source of air bag damage	Φl	Ø1
Air bag tethered?	2,2	1,0
Air bag have vent ports?	2, 2	2, 2
Other occupant contact air bag?	1	2
Occupant wearing eyewear?	4	9

### Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

# Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

### Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

### Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

### Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

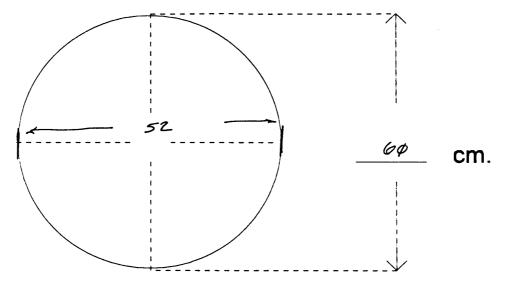
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### Was This Occupant Wearing Eye-wear?

- (0) Not equipped/not available
- (1) No
- (2) Eyegiasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

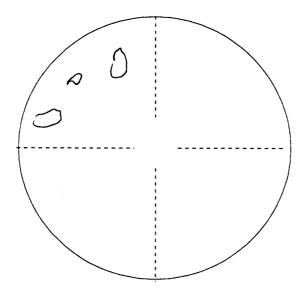
# DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



10 POWS IN FLONT 6.5 CM APART

2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

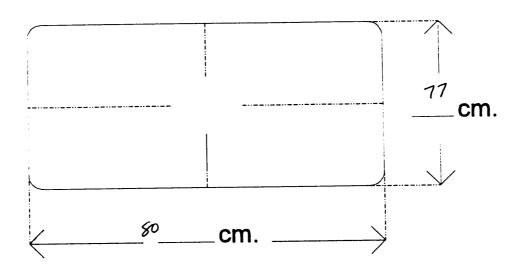


2 FOLDS IN BACK

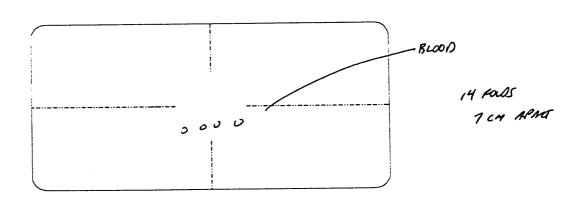
DRIVER AIR BAG SI	(ETCHES (Cont'd)
3. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap  width (Wu)  24  width (WL)  lo  height (Hu)  H,  H,  W,  H,  W,  H,  H,  H,  H,  H,	
4. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	5. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
	6. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS
	10 2 9 3 8 4 7 6 5

# PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)

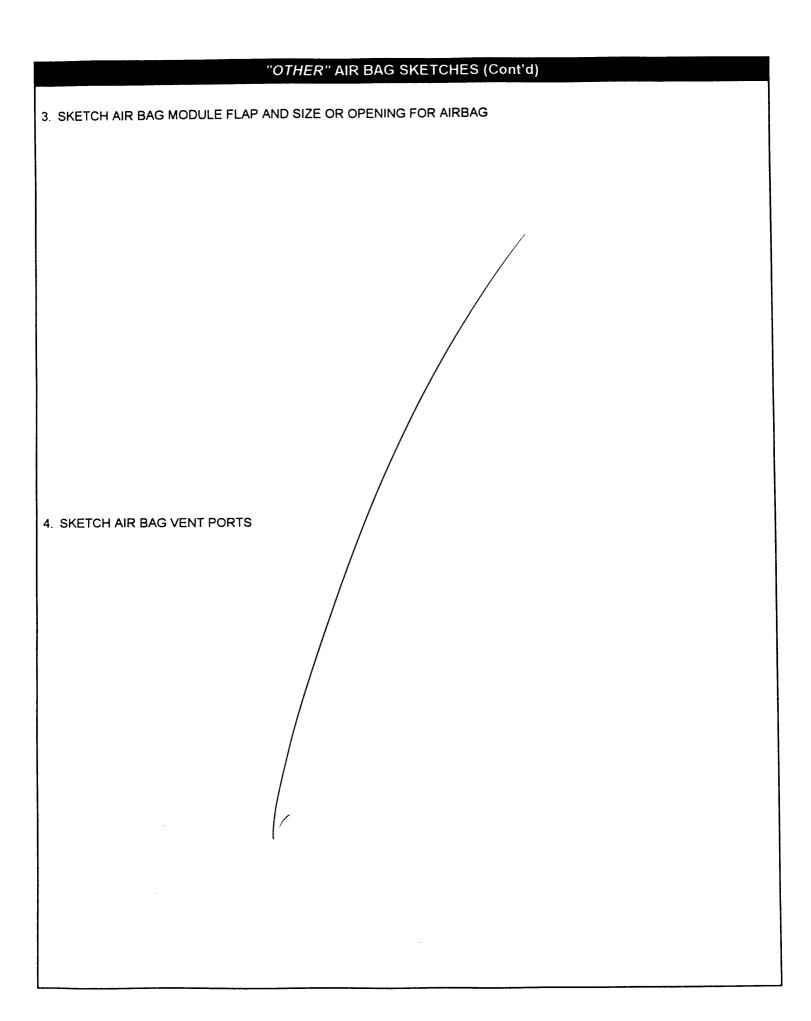


2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BAG	S SKETCHES (Cont'd)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap width (W)	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)  a. Upper Flap  width (Wu)  height (Hu)  Hu  Hu  Wu  Hu  Wu  Hu  Hu  Hu  Hu  Hu
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
	7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS  10 11 12 1 2  9 3  8 7 6 5 4

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)



# HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	Head Restraint Type/Damage	3	/	3
_	Seat Type	41	/	41
F	Seat Performance	/		/
R S	Seat Orientation	6		4
Ť	Seat Track Position	14		14
	Seat Back Incline Pre/Post Impact	1		/
	Head Restraint Type/Damage	Φ	<b>\$</b>	φ
	Seat Type	<i>\$5</i>	Ø 5	Φ5
S E	Seat Performance	,	•	,
CO	Seat Orientation	1	,	1
N D	Seat Track Position	φι	Ø1	a/
U	Seat Back Incline Pre/Post Impact	1	1	/
	Head Restraint Type/Damage			
~	Seat Type		/	
T H	Seat Performance	/		
I R	Seat Orientation			
D	Seat Track Position			
	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage			
0	Seat Type			
T H	Seat Performance			
E R	Seat Orientation			
11	Seat Track Position			/
	Seat Back Incline Pre/Post Impact			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

# HEAD RESTRAINTS/SEAT EVALUATION

### Head Restraint Type/Damage by Occupant at This Occupant **Position**

- (0) No head restraints
- (1) Integral no damage(2) Integral damaged during accident
- (3) Adjustable no damage(4) Adjustable damaged during accident
- (5) Add-on no damage
- (6) Add-on damaged during accident
- Other Specify):
- (9) Unknown

### Seat Performance (this Occupant Position)

- Occupant not seated or no seat No seat performance failure(s)
- Seat adjusters failed (2)
- Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- Deformed by impact of occupant
- Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

### Seat Type (this Occupant Position)

- Occupant not seated or no seat
- Bucket (01)
- Bucket with folding back (02)
- (03)Bench
- Bench with separate back (04)cushions
- Bench with folding back(s)
- (06) Split bench with separate back cushions
- Split bench with folding back(s) (07)
- Pedestal (i.e., column (08)supported)
- Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Únknown

### Seat Orientation (this Occupant Position)

- Occupant not seated or no seat (0)
- Forward facing seat
- Rear facing seat
- Side facing seat (inward)
- Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

### Seat Track Adjusted Position Prior To Impact

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

### Adjustable Seat Track

- (2) Seat at forward most track position
- (3) Seat between forward most and middle track positions
- (4) Seat at middle track position
- (5) Seat between middle and rear most track positions
- Seat at rear most track position
- (9) Unknown

### Seat Back Incline Prior and Post Impact

- Occupant not seated or no seat (OO)
- (01) Not adjustable

### Upright prior to impact

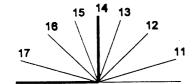
- Moved to completely rearward (11)position
- Moved to rearward midrange (12)position
- Moved to slightly rearward position (13)
- (14) Retained pre-impact position
- Moved to slightly forward position (15)
- Moved to forward midrange (16)position
- Moved to completely forward (17)position

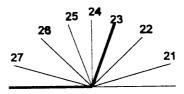
### Slightly reclined prior to impact

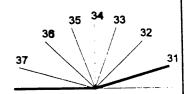
- Moved to completely rearward (21)position
- Moved to rearward midrange (22)position
- Retained pre-impact postion (23)
- (24) Moved to upright position
- Moved to slightly forward position (25)
- Moved to forward midrange (26)position
- Moved to completely forward (27)position

## Completely reclined prior to impact

- Retained pre-impact position
- Moved to rearward midrange (32)position
- Moved to slightly rearward position (33)
- Moved to upright position (34)
- Moved to slightly forward position (35)
- Moved to forward midrange (36)position
- (37)Moved to completely forward position
- (99) Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

Wh	nen a child safety seat is pre	sent enter the oc	cupant's numbe	er in the first row and complete the column below the blumn for each child safety seat present.
oco	cupant's number using the co	ues listed below.	Complete a col	Juliin for each chilu safety seat present.
Ос	cupant Number	Φ3		
1.	Type of Child Safety Seat			
2.	Child Safety Seat Orientation			
3.	Child Safety Seat Harness Usage			
4.	Child Safety Seat Shield Usage			
5.	Child Safety Seat Tether Usage			
6.	Child Safety Seat Make/Model		Specify Be	Below for Each Child Safety Seat
1.	Type of Child Safety Seat		•	. Child Safety Seat Harness Usage
	<ul> <li>(0) No child safety seat</li> <li>(1) Infant seat</li> <li>(2) Toddler seat</li> <li>(3) Convertible seat</li> <li>(4) Booster seat</li> <li>(7) Other type child safety</li> </ul>	seat (specify):		<ul> <li>Child Safety Seat Shield Usage</li> <li>Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5.</li> <li>(00) No child safety seat</li> </ul>
	(8) Unknown child safety s (9) Unknown if child safety		-	Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used
2.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight			(02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used
	(01) Rear facing (02) Forward facing (08) Other orientation (spe	ecify):	_	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
	(09) Unknown orientation			(19) Unknown if harness/shield/tether used
	Designed for Forward Facin Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (spe			Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(19) Unknown orientation			(99) Unknown if child safety seat used
	Unknown Design or Orienta Age/Weight, or Unknown A (21) Rear facing (22) Forward facing	ge/Weight	6.	<ol> <li>Child Safety Seat Make/Model         (Specify make/model and occupant number)</li> </ol>
	(28) Other orientation (spe		_	
	( ) /			

(99) Unknown if child safety seat used

Com vehic	plete the following if the researche le. Code the appropriate data on t	er has any ir he Occupar	ndication th nt Assessm	nat an occupant v nent Form.	was either ejec	ted from or e	entrapped in the	
EJE(	CTION No [1/] Yes [ ] cribe indications of ejection and boo	dy parts invo	lved in par	tial ejection(s):				
	Occupant Number							
	Ejection							
	(Note on Vehicle Interior Sketch) Ejection Area							
	Ejection Medium							
	Medium Status							
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown  Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear		(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):			(8) Oth	(5) Integral structure (8) Other medium (specify):  (9) Unknown		
		Ejection Medium  (1) Door/hatch/tailgate  (2) Nonfixed roof structure  (3) Fixed glazing  (4) Nonfixed glazing (specify):		Medium Status (Immediately Prio to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown				
	rRAPMENT No [レ Yes [ cribe entrapment mechanism:			•				
_								
Cor	nponent(s):							



tional Highway Traffic Safety ministration	NATIONAL ACCIDENT SAMPLING SY CRASHWORTHINESS DATA SY
1. Primary Sampling Unit Number	* OCCUPANT'S SEATING
2. Case Number - Stratum 4 13 1	10. Occupant's Seat Position // / // // // // // // // // // // //
3. Vehicle Number	(11) Left side
4. Occupant Number	/ (12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
5. Occupant's Age 4	(15) On or in the lap of another occupant
Code actual age at time of accident.	Second Seat
(00) Less than one year old (specify by month):	(21) Left side
	(22) Middle
(97) 97 years and older	(23) Right side (24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	(23) On or in the rap of another occupant
. Occupant's Sex	/ Third Seat
(1) Male	(31) Left side
(2) Female-not reported pregnant	(32) Middle (33) Right side
(3) Female-pregnant-1st trimester(1st-3rd month	(24) 04 = (=================================
(4) Female-pregnant-2nd trimester(4th-6th mont)	(25) On an in the lan of another account
(5) Female-pregnant-3rd trimester(7th-9th month	) (30) On or in the tap of another occupant
(6) Female-pregnant-term unknown	Fourth Seat
(9) Unknown	(41) Left side
	(42) Middle
	(43) Right side
'. Occupant's Height / 7 8	(44) Other (specify):
Code actual height to the nearest centimeter.	(45) On or in the lap of another occupant
(999) Unknown	(97) In or on unenclosed area
(000) Olikliottii	(98) Other seat (specify):
7% inches X 2.54 = $/78$ centimeters	(99) Unknown
3. Occupant's Weight $\phi$ 9 5	
Code actual weight to the nearest	
kilogram.	11. Occupant's Posture
(999) Unknown	(0) Normal posture
210	Abnormal posture
$21 \frac{\phi}{\phi}$ pounds X .4536 = $\frac{\phi}{\phi} \frac{9.5}{9.5}$ kilograms	(1) Kneeling or standing on seat
Occupant's Pole	(2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat
. Occupant's Role (1) Driver	(4) Sitting sideways or turned to talk with another
(2) Passenger	occupant or to look out a rear window
(9) Unknown	(5) Sitting on a console
·	(6) Lying back in a reclined seat position
	(7) Bracing with feet or hands on a surface in front of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
	·

EJECTION/ENTRAPMENT					
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	Φ.	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown			
13. Ejection Area  (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	Φ_	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or			
14. Ejection Medium  (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	<u>Φ</u>	disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown			

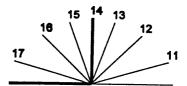
		DELI SY	31E	EM FUNCTION	
18	3. M (0 (1	anual (Active) Belt System Availability ) None available ) Belt removed/destroyed	3	Shoulder Belt Upper Anchorage Adjustment     No shoulder belt	<u>/</u>
	(2	) Shoulder belt		(1) No upper anchorage adjustment for shoulder belt	t
	(3 (4 (5	) Lap belt ) Lap and shoulder belt ) Belt available—type unknown		Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position	
	_	tegral Belt Partially Destroyed		(4) In full down position	
	(6 (7 (8	) Shoulder belt (lap belt destroyed/removed) ) Lap belt (shoulder belt destroyed/removed)		<ul><li>(5) Position unknown</li><li>(9) Unknown if position has adjustable upper anchorage adjustment</li></ul>	,
	(9	Unknown		23. Automatic (Passive) Belt System Availability/ Function	<i>'</i>
19	. Ma	anual (Active) Belt System Use  O) None used, not available, or belt removed/destroyed		(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	
	(0	1) Inoperative (specify):		Non-functional	
	(0:	2) Shoulder belt 3) Lap belt		(4) Automatic belts destroyed or rendered inoperative (9) Unknown	
	(0:	Lap and shoulder belt     Belt used—type unknown	1	24. Automatic (Passive) Belt System Use	1
	(08	3) Other belt used (specify):	- 1	(0) Not equipped/not available/destroyed or rendered inoperative	_
	(12	Shoulder belt used with child safety seat	ŀ	(1) Automatic belt in use (2) Automatic belt not in use (manually	
	(12	Lap belt used with child safety seat     Lap and shoulder belt used with child	- 1	I disconnected, motorized track inoperative)	
	(15 (18	safety seat  Belt used with child safety seat—type unknown  Other belt used with child safety seat		(specify): (3) Automatic belt use unknown (9) Unknown	-
	(99	(specify): ) Unknown if belt used	ŀ	25. Automatic (Passive) Belt System Type (0) Not equipped/not available	_
20.	(0)	oper Use of Manual (Active) Belts  None used or not available	_	(1) Non-motorized system (2) Motorized system (9) Unknown	
	(1)	Belt used properly Belt used properly with child safety seat		26. Proper Use of Automatic (Passive)	_
	Bel	t Used Improperly		Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly	
	(3)	Shoulder belt worn under arm Shoulder belt worn behind back or seat	- 1	(2) Automatic belt used properly with	
	(5)	Belt worn around more than one person		child safety seat	
	(8) (7)	Lap belt worn on abdomen Lap belt or lap and shoulder belt used	- 1	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm	
	•	improperly with child safety seat (specify):  Other improper use of manual belt system		(4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person	
	(-,	(specify):	ł	<ul><li>(6) Lap portion of automatic belt worn on abdomen</li></ul>	
	(9)	Unknown	- 1	(7) Automatic lap and shoulder belt or	
21.	Dur	nual (Active) Belt Failure Modes	_	automatic shoulder belt used improperly with child safety seat (specify):	
	(0) (1)	No manual belt used or not available No manual belt failure(s)		(8) Other improper use of automatic belt system	
	(2)	Torn webbing (stretched webbing not	1	(specify):(9) Unknown	İ
	(3)	included) Broken buckle or latchplate	- 1.	27 Automotic (Passiva) Balt Sailuse Mad	
	(4)	Upper anchorage separated Other anchorage separated (specify):	- 1 1	27. Automatic (Passive) Belt Failure Modes  During Accident	.
				<ul><li>(0) Not equipped/not available/not in use</li><li>(1) No automatic belt failure(s)</li></ul>	
		Broken retractor Combination of above (specify):		(2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated	
(	8)	Other manual belt failure (specify):		<ul><li>(4) Upper anchorage separated</li><li>(5) Other anchorage separated (specify):</li></ul>	
(	9)	Unknown		(6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt follows (specify):	
				(8) Other automatic belt failure (specify):	
				(9) Unknown	

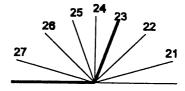
POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	<ul> <li>33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)</li> <li>(0) Not equipped with an "other" air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

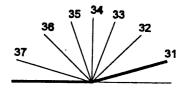
FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)?  (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag  (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?  (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service  Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown  43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HE	AD	RESTRAINT AND SEAT EVALUATION	N
44.	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify):			d Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—no damage Other (specify):	<u>3</u>
	(06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):		(9)	Unknown  Type (this Occupant Position)  ### ### ############################	
45.	(95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown  Was The Air Bag Tethered?  (0) Not equipped/not available	(05) Bench with folding back(s)	Occupant not seated or no seat Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported)	,	
	(1) No (2) Yes (specify number of tether straps):  (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed	,	(10) (99)	Box mounted seat (i.e., van type) Other seat type (specify): Unknown Orientation (this Occupant Position)	
46.	(9) Unknown  Did The Air Bag Have Vent Ports?  (0) Not equipped/not available  (1) No  (2) Yes (specify number of vent ports):	(	(0) ( (1) F (2) F (3) S (4) S	Occupant not seated or no seat Forward facing seat Rear facing seat Side facing seat (inward) Side facing seat (outward) Other (specify):	
	(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	52.	Seat (0) (	Unknown  Track Adjusted Position Prior To Impact  Occupant not seated or no seat  Non-adjustable seat track	- 1
	Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):  (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown		Adjus (2) S (3) S (4) S (5) S (6) S	stable Seat Track Seat at forward most track position Seat between forward most and middle track sositions Seat at middle track position Seat between middle and rear most track sositions Seat at rear most track position	
	Was This Occupant Wearing Eye-wear?  (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown				

53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat
(01) Not adjustable
Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position
Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position
Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99) Unknown
54. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify):
(7) Combination of above (specify):
(8) Other (specify):(9) Unknown







	9	HILD SA	FETY SEAT	
55. Cł		Φφ	58. Child Safety Seat Harness Usage	4 0
	00) No child safety seat	<u></u>	36. Uniid Salety Seat marness Usage	φ φ
Аp	oplicable codes are found in your NASS C	DS		
Da	ata Collection, Coding and Editing		59. Child Safety Seat Shield Usage	φ φ
(95	50) Built-in child safety seat			<u> </u>
	97) Other make/model (specify):			
			60. Child Safety Seat Tether Usage	ΦΦ
	98) Unknown make/model			<u> </u>
(99	99) Unknown if child safety seat used		Note: Options below applicable to	
~~ w.,		_	Variables OA58-OA60.	
56. lyp	pe of Child Safety Seat	<u> </u>	(00) No child safety seat	
	No child safety seat			
	Infant seat		Not Designed With Harness/Shield/Tether	
, ,	Toddler seat Convertible seat		(01) After market harness/shield/tether	
	Booster seat - with shield	•	added, not used	
	Booster seat - with shield	,	(02) After market harness/shield/tether use	
	Other type child safety seat (specify):	,	(03) Child safety seat used, but no after ma	arket
\·/	Other type chilic safety seat (specify).	,	harness/shield/tether added	
(8)	Unknown child safety seat type		(09) Unknown if harness/shield/tether	
(9)	Unknown if child safety seat used	,	added or used	
` '	Officions in office during doct adda	'	Designed With Hamess/Shield/Tether	
		,	(11) Harness/shield/tether not used	
57. Chi	ld Safety Seat Orientation	44	(12) Harness/shield/tether used	
	) No child safety seat	<del></del>	(19) Unknown if harness/shield/tether used	
	•	J	(10) Officional il namessishicia/tener usea	
Des	signed for Rear Facing for This Age/Weigl	ht I	Unknown If Designed With Hamess/Shield/To	Tather
(01)	) Rear facing	, ,	(21) Harness/shield/tether not used	eu iei
	Forward facing	1	(22) Harness/shield/tether used	
(08)	) Other orientation (specify):	1	(29) Unknown if harness/shield/tether used	
(00)		_ /		
(ບອງ	Unknown orientation		(99) Unknown if child safety seat used	
Das	inned For Formal Footon to This Ame At			
/11)	signed For Forward Facing for This Age/W Rear facing	/eight		
(11)	•			
(12) (18)		1		
(,-,	Other onemation (Specify).	j		
(19)	Unknown orientation	-	,	
		- 1		
Unki	nown Design or Orientation For This	1		
Age/	Weight, or Unknown Age/Weight	İ		
(21)	Rear facing	[		
	Forward facing			
(28)	Other orientation (specify):			
(29)	Unknown orientation	1		
(00)	Material Sections and April 1994			
(99)	Unknown if child safety seat used	İ		
		1		
		ľ		
		1		
		Ì		

National Accident Sampling System-Crashworthiness Dat	a System: Occupant Assessment Form	Page 9			
INJURY CONSEQUENCES					
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):  (9) Unknown	4			
<ul> <li>62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown</li> </ul>	(00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown				
STOP WORK HERE					
VARIABLES 66-74					
TO BE CODED BY THE ZONE CENTER					

# TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 +n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	49	71. Glasgow Coma Scale (GCS) Score  (at Medical Facility)  (00) Not injured  (01) Injured - not treated at medical facility  (02) No GCS Score at medical facility  (03-15) Code the actual value of the initial GCS Score recorded at medical facility.  (97) Injured, details unknown  (99) Unknown if injured
67. 1st Medically Reported Cause of Death	<u>Φ</u> Φ Φ Φ	72. Was the Occupant Given Blood?  (1) No - blood not given  (2) Yes - blood given  (specify units):
68. 2nd Medically Reported Cause of Death		(9) Unknown if blood given
69. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  (00) Not fatal or no additional causes  (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	<u> </u>	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured  (01) Injured, ABGs not measured or reported  (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown  (97) Injured, details unknown  (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):		BELT USE DETERMINATION
(99) Unknown  70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant.  (00) No recorded injuries  (97) Injured, details unknown  (99) Unknown if injured	φ φ	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used



National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum  AB / 4  3. Vehicle Number  4. Occupant Number $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ / $\phi$ /	10. Occupant's Seat Position  Front Seat  (11) Left side  (12) Middle
OCCUPANT'S CHARACTERISTICS  5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown  6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month)	(13) Right side (14) Other (specify):
(4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown  7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown  66 inches x 2.54 = 168 centimeters	(34) Other (specify):
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture  Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown
	BEST AVAILABLE

EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<u> </u>	15. Medium Status (Immediately Prior To Impact)  (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown  14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	Φ.	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown	

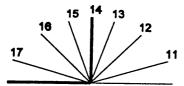
BELT SYSTEM FUNCTION				
18. Manual (Active) Belt System Availability  (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown  19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat (15) Belt used with child safety seat (15) Belt used with child safety seat (16) Other belt used with child safety seat (17) Unknown if belt used (18) Other belt used (19) Unknown if belt used (20) Proper Use of Manual (Active) Belts (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt used properly (2) Belt used properly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt used improperly (3) Shoulder belt worn behind back or seat (5) Belt used roperly with child safety seat (6) Lap belt or lap and shoulder belt used (7) Lap belt or lap and shoulder belt used (8) improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown  21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt sed or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (6) Other anchorage separated (7) Combination of above (specify):	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt  Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment  23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  Non-functional (4) Automatic belts - type unknown  Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt in use (3) Automatic belt use unknown (9) Unknown  25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Unknown  26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly (3) Automatic belt used properly (4) Automatic belt used properly (5) Automatic belt used properly (6) Automatic belt used properly (7) Automatic belt worn under arm (8) Automatic belt used properly (9) Automatic belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt worn on abdomen (7) Automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown  27. Automatic (Passive) Belt Failure Modes During Accident (1) Not equipped/not available/not in use (1) Not equipped/not available/not in use (1) Not equipped/not available/not in use (2) Automatic (Passive) Belt Failure Modes During Accident (1) Not equipped/not available/not in use (2) Automatic (Passive) Belt Failure Modes During Accident (1) Not equipped/not available/not in use (2) Automatic (Passi			
(4) Upper anchorage separated (5) Other anchorage separated (specify):  (6) Broken retractor	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate			

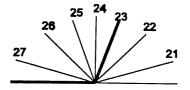
R BAG SYSTEM FUNCTION
al Air Bag System ability/Function Occupant on) Not equipped/not available Air bag  functional Air bag disconnected (specify):  Air bag not reinstalled Unknown tal Air Bag System Deployment Coccupant Position) Not equipped/not available
Deployed during accident (as a result of impact) Deployed inadvertently just prior to accident Deployed, details unknown Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) Unknown if deployed Nondeployed Unknown
er Than First Seat Frontal Air Bag ilability/Function s Occupant ition) Not equipped/not available Air bag n-functional Air bag disconnected (specify):  Air bag not reinstalled Unknown city type of "other" air bag present:  Bag(s) Deployment, Other Than First at Frontal (This Occupant Position) Not equipped with an "other" air bag Deployed during accident (as a result of impact) Deployed inadvertently just prior to accident Deployed, details unknown Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) Unknown if deployed Nondeployed Unknown  e There Indications of Air Bag System illure? his Occupant Position) Not equipped/not available No Yes (specify):

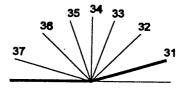
FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)?  (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag  (0) Not equipped/not available  (1) Original manufacturer installed system  (2) Retrofitted air bag  (3) Replacement air bag  (8) Unknown type of air bag  (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available (1) No (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	<ul> <li>(9) Unknown</li> <li>43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged</li> <li>Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn</li> </ul>
39. CDC For Air Bag Deployment Impact  (0) Not equipped/not available  (1) Highest delta V  (2) Second highest delta V  (3) Other non-coded delta V (specify):  (6) Deployed, unknown event  (7) Not deployed  (8) Unknown if deployed  (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM	<b>HEAD RESTRAINT AND SEAT EVALUATION</b>
EVALUATION continued  44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):  (95) Damaged, unknown source	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat
(96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown  45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):	(01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):
(3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown  46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):  (3) Deployed, unknown if vent ports present (7) Not deployed	(99) Unknown  51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):  (9) Unknown
(8) Unknown if deployed (9) Unknown  47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):  (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track  Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

53. Seat Back Incline Prior and Post Impact		4
(00) Occupant not seated or no seat (01) Not adjustable		
Upright prior to impact		
(11) Moved to completely rearward position		
(12) Moved to rearward midrange position		
(13) Moved to slightly rearward position		
(14) Retained pre-impact position (15) Moved to slightly forward position		
(16) Moved to slightly followard position		
(17) Moved to completely forward position		
Slightly reclined prior to impact		
(21) Moved to completely rearward position		
(22) Moved to rearward midrange position		
(23) Retained pre-impact position		
<ul><li>(24) Moved to upright position</li><li>(25) Moved to slightly forward position</li></ul>		
(26) Moved to slightly forward position		
(27) Moved to completely forward position		
Completely reclined prior to impact		
(31) Retained pre-impact position		
(32) Moved to rearward midrange position		
(33) Moved to slightly rearward position		
(34) Moved to upright position		
(35) Moved to slightly forward position		
(36) Moved to forward midrange position		
(37) Moved to completely forward position		
(99) Unknown		
54. Seat Performance (this Occupant Position)		1
(0) Occupant not seated or no seat		<u> </u>
(1) No seat performance failure(s)		
(2) Seat adjusters failed		
(3) Seat back folding locks or "seat back" faile	d	
(specify):		
(4) Seat track/anchors failed		
(5) Deformed by impact of occupant	_	
(6) Deformed by passenger compartment intru (specify):	ISiO	n,
(7) Combination of above (specify):	•	
(8) Other (specify):		
(9) Unknown		







	CHILD SA	FETY SEAT
55.	Child Safety Seat Make/Model  (000) No child safety seat	58. Child Safety Seat Harness Usage <u>φ</u> φ
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat	59. Child Safety Seat Shield Usage <u>φ</u> φ
	(997) Other make/model (specify):  (998) Unknown make/model	60. Child Safety Seat Tether Usage
	(999) Unknown if child safety seat used	Note: Options below applicable to Variables OA58-OA60.
56.	Type of Child Safety Seat  (0) No child safety seat	(00) No child safety seat
	<ul><li>(1) Infant seat</li><li>(2) Toddler seat</li><li>(3) Convertible seat</li></ul>	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether
	(4) Booster seat - with shield (5) Booster seat - without shield	added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market
	(7) Other type child safety seat (specify):	harness/shield/tether added (09) Unknown if harness/shield/tether
	<ul><li>(8) Unknown child safety seat type</li><li>(9) Unknown if child safety seat used</li></ul>	added or used  Designed With Hamess/Shield/Tether
	Child Safety Seat Orientation $\psi$ $\psi$ (00) No child safety seat	(11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):	Unknown If Designed With Hamess/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used
	(09) Unknown orientation	(29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
Į.	Designed For Forward Facing for This Age/Weight	(00)
	(11) Rear facing (12) Forward facing	
	(18) Other orientation (specify):	
(	(19) Unknown orientation	
( (	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight 21) Rear facing 22) Forward facing 28) Other orientation (specify):	
(	29) Unknown orientation	
(!	99) Unknown if child safety seat used	

INJURY CONSEQUENCES		
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	<u>\$\Phi\$.</u>	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	Φ	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
<ul> <li>(3) Hospitalization</li> <li>(4) Transported and released</li> <li>(5) Treatment at scene - nontransported</li> <li>(6) Treatment later</li> <li>(7) Treatment - other (specify):</li> <li>(8) Transported to a medical facility-unknown if treated</li> <li>(9) Unknown</li> </ul>		65. Working Days Lost  Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown

## **STOP WORK HERE**

**VARIABLES 66-74** 

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death  Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death	72. Was the Occupant Given Blood?  (1) No - blood not given  (2) Yes - blood given
68. 2nd Medically Reported Cause of Death	(specify units): (9) Unknown if blood given
69. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub>
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant ——Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum  ABIFF  3. Vehicle Number  4. Occupant Number  OCCUPANT'S CHARACTERISTICS  5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):	10. Occupant's Seat Position  Front Seat  (11) Left side (12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant  Second Seat (21) Left side (22) Middle (23) Right side
(97) 97 years and older (99) Unknown	(24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle (43) Right side
7. Occupant's Height	(44) Other (specify): (45) On or in the lap of another occupant  (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	<ul> <li>Abnormal posture</li> <li>(1) Kneeling or standing on seat</li> <li>(2) Lying on or across seat</li> <li>(3) Kneeling, standing or sitting in front of seat</li> <li>(4) Sitting sideways or turned to talk with another occupant or to look out a rear window</li> <li>(5) Sitting on a console</li> <li>(6) Lying back in a reclined seat position</li> <li>(7) Bracing with feet or hands on a surface in front of seat</li> <li>(8) Other abnormal posture (specify):</li> <li>Or LAR OF OCC.</li> <li>(9) Unknown</li> </ul>

BEST AVAILABLE

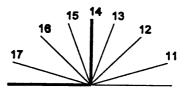
EJ	IECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<u>\$</u>	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown  14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify): (9) Unknown	φ	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):

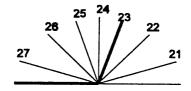
		BELI	SYSIE	IVI F	FUNCTION
18.	Ma (0) (1) (2) (3) (4) (5)	Beit removed/destroyed Shoulder belt Lap belt	Φ	22.	2. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt (2) In full up position (3) In mid position
		egral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)		22	(3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment  3. Automatic (Passive) Belt System Availability/
	(9)	Unknown	<b>-</b> .	23.	Function (0) Not equipped/not available (1) 2 point automatic belts
19.	(00	nual (Active) Belt System Use ) None used, not available, or belt removed/destroyed ) Inoperative (specify):	φ		(2) 3 point automatic belts (3) Automatic belts - type unknown
	(02 (03 (04 (05	Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown Other belt used (specify):		24.	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative
	(13 (14 (15	<ul> <li>Shoulder belt used with child safety seat</li> <li>Lap belt used with child safety seat</li> <li>Lap and shoulder belt used with child safety seat</li> <li>Belt used with child safety seat—type unknown other belt used with child safety seat</li> </ul>	wn		<ul> <li>(1) Automatic belt in use</li> <li>(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):</li> <li>(3) Automatic belt use unknown</li> <li>(9) Unknown</li> </ul>
		(specify): Unknown if belt used		25.	. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system
20.	Pro	per Use of Manual (Active) Belts None used or not available	Ψ_		(1) Non-motorized system (2) Motorized system (9) Unknown
	(1) (2)	Belt used properly Belt used properly with child safety seat		26.	Proper Use of Automatic (Passive)  Belt System
	(3) (4) (5)	Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen		,	<ul> <li>(0) Not equipped/not available/not used</li> <li>(1) Automatic belt used properly</li> <li>(2) Automatic belt used properly with child safety seat</li> </ul> Automatic Belt Used Improperly
	(7)	Lap belt or lap and shoulder belt used improperly with child safety seat (specify):			(3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than
	• •	Other improper use of manual belt system (specify):			one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.		Unknown ual (Active) Belt Failure Modes	<b>\$</b>		automatic shoulder belt used improperly with child safety seat (specify):
	Duri (0) (1)	ng Accident No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not included)			(8) Other improper use of automatic belt system (specify):  (9) Unknown
-	(4)	Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify):			Automatic (Passive) Belt Failure Modes  During Accident  (0) Not equipped/not available/not in use
		Broken retractor Combination of above (specify):		}	<ul> <li>(1) No automatic belt failure(s)</li> <li>(2) Torn webbing (stretched webbing not included)</li> <li>(3) Broken buckle or latchplate</li> <li>(4) Upper anchorage separated</li> </ul>
		Other manual belt failure (specify):	ļ	(	(5) Other anchorage separated (specify):
	(9)	Unknown		{	<ul><li>(6) Broken retractor</li><li>(7) Combination of above (specify):</li><li>(8) Other automatic belt failure (specify):</li></ul>
				(	(9) Unknown

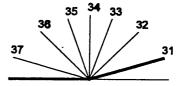
POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	<ul> <li>31. Frontal Air Bag System Deployment (This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> <li>32. Other Than First Seat Frontal Air Bag</li> </ul>
Check the Primary Source Used In Determining Belt Use.  [] Not equipped/not available/destroyed or rendered inoperative [v] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of *other* air bag present:  33. Air Bag(s) Deployment, Other Than First
	Seat Frontal (This Occupant Position)  (0) Not equipped with an "other" air bag  (1) Deployed during accident (as a result of impact)  (2) Deployed inadvertently just prior to accident  (3) Deployed, details unknown  (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)  (5) Unknown if deployed  (7) Nondeployed  (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) Nο (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR BAG SYST EVALUATION continued		
44. Source of Air Bag Damage		49. Head Restraint Type/Damage by Occupant
(00) Not equipped that available	<u> 4 4 _</u>	at This Occupant Position
(00) Not equipped/not available		(0) No head restraints
(01) Not damaged		(1) Integral—no damage
(02) Object worn by occupant, (specify):		(2) Integral demand design and the
		(2) Integral—damaged during accident
(03) Object carried by occupant, (specify):		(3) Adjustable—no damage
, , , , , , , , , , , , , , , , , , , ,		(4) Adjustable—damaged during accident
(04) Adaptive/assistive controls, (specify):		(5) Add-on—no damage
( ) starper started contacts, (specify).		(6) Add-on—damaged during accident
(05) Fire in vehicle		(8) Other (specify):
		(-, -, (-,, -, -, -, -, -, -, -, -, -, -, -,
(06) Thermal burns		(9) Unknown
(07) Rescue or emergency efforts		(o) Childwii
(88) Other damage source (specify):		FO Soot Time White Orders A.B. W.
		50. Seat Type (this Occupant Position) $\phi \phi$
(95) Damaged, unknown source		(00) Occupant not seated or no seat
(96) Deployed, unknown if damaged		(01) Bucket
(97) Not deployed		(02) Bucket with folding back
(98) Unknown if deployed		(03) Bench
(90) Unknown ii deployed		(04) Bench with separate back cushions
(99) Unknown		(05) Bench with folding back(s)
		(06) Split banch with concrete back and i
45. Was The Air Bag Tethered?	P	(06) Split bench with separate back cushions
(0) Not a wine a division of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con		(07) Split bench with folding back(s)
(0) Not equipped/not available		(08) Pedestal (i.e., column supported)
(1) No		(09) Box mounted seat (i.e., van type)
(2) Yes (specify number of tether straps):		(10) Other seat type (specify):
(3) Deployed, unknown if tethered	<del></del>	(99) Unknown
(7) Not deployed		
(8) Unknown if deployed		51 Soot Orientation (this Occurred By 11)
(9) Unknown		51. Seat Orientation (this Occupant Position)
· •	ļ	(0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports?	Ψ	(1) Forward facing seat
(0) Not equipped/not available		(2) Rear facing seat
(1) No		(3) Side facing seat (inward)
		(4) Side facing seat (outward)
(2) Yes (specify number of vent ports):		(8) Other (specify):
(2) D. I		(=) = (=  ==),.
(3) Deployed, unknown if vent ports present	j	(9) Unknown
(7) Not deployed	,	(C) CHRIOWII
(8) Unknown if deployed		52 Soot Trook Adjusted Basican B. T
(9) Unknown	j	52. Seat Track Adjusted Position Prior To Impact
	j	(0) Occupant not seated or no seat
47. Was the Air Bag in this Occupant's Position	9	(1) Non-adjustable seat track
Contacted by Another Occupant?		
(0) Not equipped/not available		Adjustable Seat Track
(1) No		(2) Seat at forward most track position
	ľ	(3) Seat between forward most and middle track
(2) Yes (specify):	1	positions
(0)		(4) Seat at middle track position
(3) Deployed, unknown if other occupant contact	ct to	(5) Soot between middle and are a second
air bag		(5) Seat between middle and rear most track
(7) Not deployed	1	positions
(8) Unknown if deployed		(6) Seat at rear most track position
(9) Unknown	i	(9) Unknown
	1	
18 Was This Occupant Wassing Free	<i>α</i> 1	_
18. Was This Occupant Wearing Eye-wear?	$\varphi$	
(0) Not equipped/not available	- 1	1
(1) No	1	
(2) Eyeglasses/sunglasses		
(3) Contact lenses		
(4) Deployed, unknown if eyewear worn		
(7) Not deployed		
(8) Unknown if deployed	i	
(9) Unknown	1	
(-) Onkilowii	- 1	BEST AVAILABLE

		HEAD RESTRAIN	I AND	2
53	(00)	Back Incline Prior and Post Impact Occupant not seated or no seat Not adjustable	<b>4</b>	
	(11) (12) (13) (14) (15) (16)	Moved to completely rearward position Moved to rearward midrange position Moved to slightly rearward position Retained pre-impact position Moved to slightly forward position Moved to forward midrange position Moved to completely forward position		
	(21) (22) (23) (24) (25)	Moved to completely rearward position Moved to completely rearward position Moved to rearward midrange position Retained pre-impact position Moved to upright position Moved to slightly forward position Moved to forward midrange position Moved to completely forward position		
	(31) (32) (33) (34) (35) (36) (37)	Retained prior to impact Retained pre-impact position Moved to rearward midrange position Moved to slightly rearward position Moved to upright position Moved to slightly forward position Moved to forward midrange position Moved to completely forward position Unknown		
54.	(0) O(1) No (2) Se (3) Se (5) De (6) De (6) De (7)	Performance (this Occupant Position) ccupant not seated or no seat o seat performance failure(s) eat adjusters failed eat back folding locks or "seat back" faile pecify): eat track/anchors failed eformed by impact of occupant eformed by passenger compartment intro pecify):		<u>-</u>
	(8) Ot	ombination of above (specify): her (specify): known	- -	







	CHILD SA	FETY SEAT	
55. Child Safety Seat Make/Model (000) No child safety seat	φφφ	58. Child Safety Seat Harness Usage	φφ
Applicable codes are found in your NASS Data Collection, Coding and Editing	SCDS	59. Child Safety Seat Shield Usage	4 ¢
(950) Built-in child safety seat (997) Other make/model (specify):			
(998) Unknown make/model (999) Unknown if child safety seat used		60. Child Safety Seat Tether Usage  Note: Options below applicable to	φ φ
56. Type of Child Safety Seat (0) No child safety seat	<u> </u>	Variables OA58-OA60. (00) No child safety seat	
<ul><li>(1) Infant seat</li><li>(2) Toddler seat</li></ul>		Not Designed With Hamess/Shield/Tether (01) After market harness/shield/tether	
<ul><li>(3) Convertible seat</li><li>(4) Booster seat - with shield</li><li>(5) Booster seat - without shield</li></ul>		added, not used (02) After market harness/shield/tether use	ed
(7) Other type child safety seat (specify):		(03) Child safety seat used, but no after ma harness/shield/tether added (09) Unknown if harness/shield/tether	arket
(8) Unknown child safety seat type (9) Unknown if child safety seat used		added or used	
57. Child Safety Seat Orientation (00) No child safety seat	<u> </u>	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used	
Designed for Rear Facing for This Age/W	eight	Unknown If Designed With Harness/Shield/I	
(01) Rear facing (02) Forward facing		(21) Harness/shield/tether not used (22) Harness/shield/tether used	
(08) Other orientation (specify):  (09) Unknown orientation		(29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used	
Designed For Forward Facing for This Age	e/Weight	(33) Officiowith Child Safety Seat Used	
(11) Rear facing (12) Forward facing			
(18) Other orientation (specify):			
(19) Unknown orientation			
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight			
(21) Rear facing (22) Forward facing			
(28) Other orientation (specify):			
(29) Unknown orientation			
(99) Unknown if child safety seat used			

INJURY CONSEQUENCES							
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	2	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):  (9) Unknown					
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown	3	64. Hospital Stay (00) Not Hospitalized —Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days Lost —Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown					
STOP WORK HERE							

**VARIABLES 66-74** 

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death  Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
<ul> <li>67. 1st Medically Reported Cause of Death</li> <li>68. 2nd Medically Reported Cause of Death</li> <li>69. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death</li> <li>(00) Not fatal or no additional causes</li> <li>(96) Mode of death given but specific injuries are not linked to cause of death. (specify):</li> </ul>	72. Was the Occupant Given Blood?  (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given  73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
<ul> <li>(97) Other result (includes fatal ruled disease) (specify):</li> <li>(99) Unknown</li> <li>70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant.</li> <li>(00) No recorded injuries</li> <li>(97) Injured, details unknown</li> <li>(99) Unknown if injured</li> </ul>	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

U.S. Department of Transportation National Highway Traffic Safety Administration

### **OCCUPANT INJURY FORM**

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

2. Case Number - Stratum

A B / 4

4. Occupant Number

φ 3

### **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

			A.I.S 9	90		_		Injury		Occupar
	Source of Injury Body Data Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	— Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
				,u. y	Dovonity	Aspect	Jource	Level	пушу	Number
1st	5. 2 6. 1	7. <u>4</u>	8. <u>Φ</u> 6_	9. <u>5</u> 4	10. 5	11. 6 12.	<b>441</b>	_ 13. <u>Z</u>	14	15. <u>44</u>
2nd	16. <u>v</u> 17. <u>l</u>	18. <u>5</u>	19. <u>44</u>	20. <u>\$\Phi\$ \$\psi\$</u>	213	22. <u></u> 23.	441	_ 242	25	26. <u>4</u> 9
	•									
3rd	27. 28. <u>1</u>	29. 7	30. <u>24</u>	31. 42	32	33. <u>9</u> 34.	697	_ 35. <u>9</u>	36	37. <u>φ</u> <del>f</del>
4th	38 39	40	41	42	43	44 45.		_ 46	47	48
			en en en en en en en en en en en en en e							
ōth	49 50	51	52	53	54	55 56.		_ 57	58	59
ith	60 61	62.	63.	64.	85	66 67.			69.	
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7th	71 72	73	74	75	76	77 78.		79	80	81
. •										
3th	82 83	84	85	86	87	88 89.	<del></del>	90	91	92
th	93 94	95	96	97	98	99 100.		101 1	02 10	03
Oth 1	104 105 1	06 10	07 1	108	109	110 111.		112 1	13 1	14

				OCCU	PANT I	NJURY	DATA				
	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 90 Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
11th											
12th											
13th			<del></del>						-		
14th	_			ar in	<del></del>					)	
15th	_		<del></del>			·					
16th						<del></del>					
17th		_	· —	<del></del>		<del></del>					
18th	<del></del> .	. —	<del></del>								:
19th	<u></u>										<u> </u>
20th		·	<del></del>	,							
21st		·									
22nd											
23rd			_					<del></del>	<del>-</del> 11 ( <del></del>		<u> </u>
24th 25th					<del></del>	_				—	

### OCCUPANT INJURY CLASSIFICATION **Aspect** Level of Injury Specific Anatomic **Body Region** Structure Right (1) Specific injuries are Left assigned consecutive (2)Head (1)**Bilateral** (3)Face two-digit numbers (2)Vessels, Nerves, Organs, Central (4) Neck beginning with 02. (3)Bones, Joints are assigned **Anterior** (5)(4)Thorax consecutive two digit **Posterior** (6)Abdomen To the extent possible, (5)numbers beginning with 02. Superior within the organizational (7)Spine (6)**Upper Extremity** framework of the AIS, 00 is (8) Inferior (7)The exceptions to this rule (9) Unknown **Lower Extremity** assigned to an injury NFS (8) Whole region as to severity or where only (0) apply to: Unspecified (9) one injury is given in the Whole Area dictionary for that anatomic (02) Skin - Abrasion Type of Anatomic Structure structure. 99 is assigned (04) Skin - Contusion to any injury NFS as to (06) Skin - Laceration Whole Area lesion or severity. (08) Skin - Avulsion Vessels (2)(10) Amputation Abbreviated Injury Scale (3)Nerves (20) Burn Organs (includes (4)(30) Crush Muscles/ligaments) Minor Injury (1) (40) Degloving Skeletal (includes Moderate Injury (5) (2)(50) Injury - NFS Serious Injury ioints) (3)(90) Trauma, other than Head - LOC Severe Injury (6)(4)mechanical Skin (9)Critical Injury (5)Maximum (6) Head - LOC (untreatable) (02) Length of LOC Injured, unknown (7)severity (04) Level (06) of (08) Consciousness (10) Concussion Spine Cervical (02)Thoracic (04)(06) Lumbar

SOURCE OF INJURY DATA	INJURY SOURCE CONFIDENCE LEVEL	DIRECT/INDIRECT INJURY
OFFICIAL RECORDS  (1) Autopsy records with or without hospital/medical records  (2) Hospital/medical records other than emergency room (e.g., discharge summary)  (3) Emergency room records only (including associated X-rays or other lab reports)  (4) Private physician, walk-in or emergency clinic	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source
UNOFFICIAL RECORDS  (5) Lay coroner report  (6) E.M.S. personnel  (7) Interviewee  (8) Other source (specify):  (9) Police		

### INJURY SOURCES (411) Wall mounted head rest (183) Air bag-passenger side and (102) Right side hardware or FRONT (used behind wheel chair) object held armrest (001) Windshield (412) Other adaptive device (184) Air bag-passenger side and (103) Right A (A1/A2)-pillar (002) Mirror (specify): object in mouth (104) Right B-pillar (003) Sunvisor (185) Air bag compartment (105) Other right pillar (specify): (004) Steering wheel rim cover-passenger side (005) Steering wheel hub/spoke (106) Right side window glass (186) Air bag compartment (006) Steering wheel (combination cover-passenger side and (107) Right side window frame of codes 004 and 005) EXTERIOR of OCCUPANT'S evewear (108) Right side window sill (007) Steering column, VEHICLE (187) Air bag compartment (109) Right side window glass transmission selector lever, (451) Hood cover-passenger side and including one or more of the other attachment (452) Outside hardware (e.g., jewelry following: frame, window (008) Cellular telephone or CB outside mirror, antenna) (188) Air bag compartment sill, A (A1/A2)-pillar, Bradio (453) Other exterior surface or cover-passenger side and pillar, or roof side rail. (009) Add on equipment (e.g., tires (specify): object held (110) Other right side object tape deck, air conditioner) (189) Air bag compartment (specify): (010) Left instrument panel and cover-passenger side and balow (454) Unknown exterior objects object in mouth (011) Center instrument panel and (190) Other air bag (specify) INTERIOR below EXTERIOR OF OTHER MOTOR (151) Seat, back support (012) Right instrument panel and VEHICLE (195) Other air bag compartment (152) Belt restraint below (501) Front bumper cover (specify) webbing/buckle (013) Glove compartment door (502) Hood edge (153) Belt restraint B-pillar or door (014) Knee bolster (503) Other front of vehicle frame attachment point (015) Windshield including one or (specify): ROOF (154) Other restraint system more of the following: front (201) Front header component (specify): header, A (A1/A2)-pillar, (504) Hood (202) Rear header instrument panel, mirror, or Hood ornament (203) Roof left side rail (505) (155) Head restraint system steering assembly (driver (506) Windshield, roof rail, A-pillar (204) Roof right side rail (160) Other occupants (specify): side only) (507) Side surface (205) Roof or convertible top (016) Windshield including one or (508) Side mirrors (161) Interior loose objects more of the following: front (509) Other side protrusions **FLOOR** (162) Child safety seat (specify): header, A (A1/A2)-pillar, (specify): (251) Floor (including toe pan) instrument panel, or mirror (252) Floor or console mounted (163) Other interior object (passenger side only) (510) Rear surface transmission lever, including (specify): (017) Windshield reinforced by (511) Undercarriage console exterior object (specify) (512) Tires and wheels (253) Parking brake handle (513) Other exterior of other (254) Foot controls including (019) Other front object (specify): AIR BAG motor vehicle (specify): parking brake (170) Air bag-driver side (171) Air bag-driver side and REAR evewear LEFT SIDE (514) Unknown exterior of other (301) Backlight (rear window) (172) Air bag-driver side and (051) Left side interior surface, motor vehicle (302) Backlight storage rack, jewelry excluding hardware or door, etc. (173) Air bag-driver side and armrests OTHER VEHICLE OR OBJECT IN (303) Other rear object (specify): object held (052) Left side hardware or THE ENVIRONMENT (174) Air bag-driver side and armrest (551) Ground (053) Left A (A1/A2)-pillar object in mouth (598) Other vehicle or object ADAPTIVE (ASSISTIVE) DRIVING (175) Air bag compartment (054) Left B-pillar (specify): cover-driver side **EQUIPMENT** (055) Other left pillar (specify): (401) Hand controls for (176) Air bag compartment (599) Unknown vehicle or object braking/acceleration cover-driver side and (056) Left side window glass (402) Steering control devices eyewear (057) Left side window frame **NONCONTACT INJURY** (attached to OEM steering (177) Air bag compartment (058) Left side window sill (601) Fire in vehicle wheell cover-driver side and jewelry (059) Left side window glass (403) Steering knob attached to (602) Flying glass including one or more of the (178) Air bag compartment (603) Other noncontact injury steering wheel cover-driver side and object following: frame, window source (405) Replacement steering wheel held sill, A (A1/A2)-pillar, B-(specify): (i.e., reduced diameter) (179) Air bag compartment pillar, or roof side rail. (406) Joy stick steering controls cover-driver side and object (060) Other left side object (604) Air bag exhaust gases (407) Wheelchair tie-downs in mouth (specify): (697) Injured, unknown source (408) Modification to seat belts. (180) Air bag-passenger side (181) Air bag-passenger side and (specify): (409) Additional or relocated eyewear RIGHT SIDE switches, (specify): (182) Air bag-passenger side and (101) Right side interior surface, excluding hardware or jewelry (410) Raised roof armrests

# OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Restrained?

\_\_\_ No

\_\_ Yes

Blood Alcohol Level (mg/dl)

BAL = \_\_\_\_

Glasgow Coma Scale Score

GCSS = \_\_\_\_

Units of Blood Given

Units = \_\_\_\_

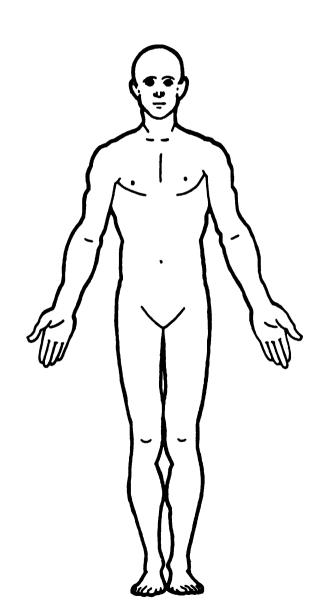
**Arterial Blood Gases** 

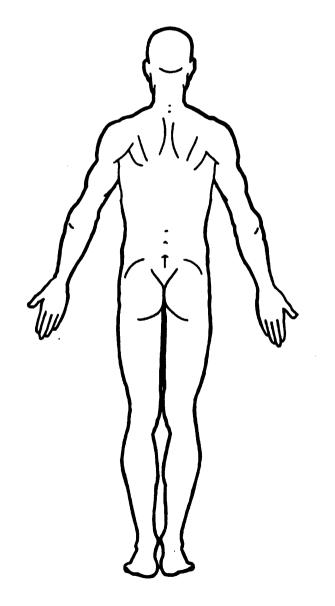
pH = \_\_.\_\_

PO,=

PCO,

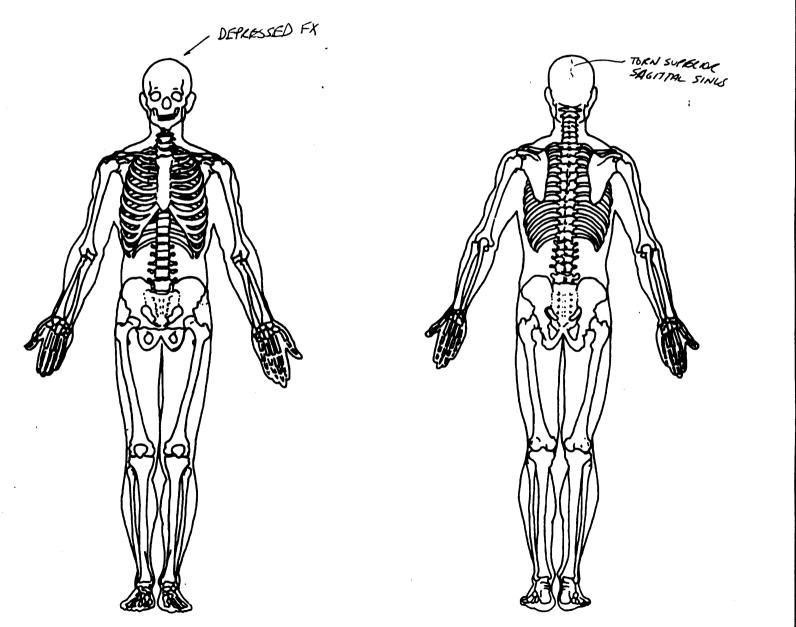
HCO, \_\_\_\_





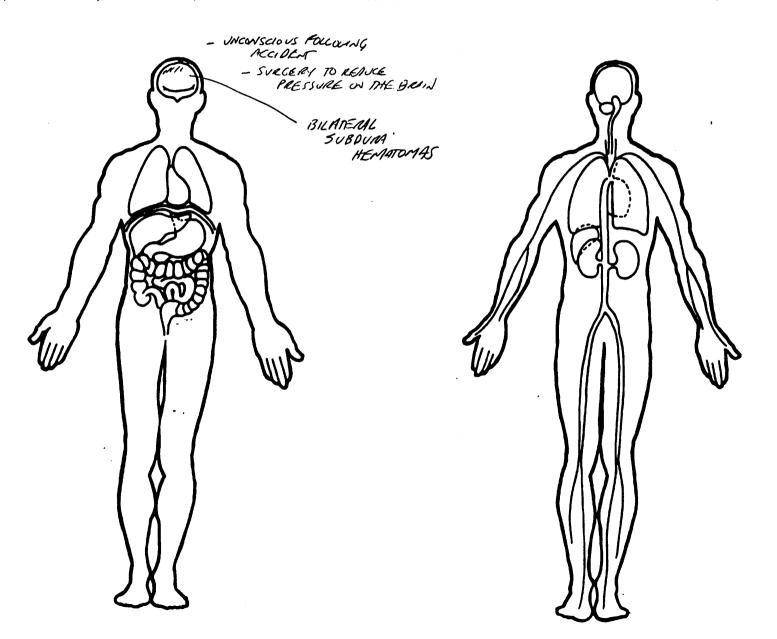
## OFFICIAL INJURY DATA — SKELETAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



### OFFICIAL INJURY DATA - INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Page 1

Summary of Results Using Damage

96-AE-14

Speed Change (Damage)

Vehicle #1 20 km/h ( 12 mph) Total -20 km/h ( -12 mph) 0 km/h ( 0 mph) Longitudinal

Latitudinal PDOF Angle

PDOF Angle 0 0 0 Energy Dissipated = 20873 Joules ( 15393 Ft-Lb) Barrier Equivalent Speed = 19.6 km/h ( 12.2 mph) Calculated using size and stiffness categories.

Vehicle #2

0 km/h ( 0 mph) 0 km/h ( 0 mph) 0 km/h ( 0 mph) Total Longitudinal Latitudinal

PDOF Angle 0 Ø
Energy Dissipated = 0 Joules ( 0 Ft-Lb
Barrier Equivalent Speed = 0.0 km/h ( 0.0 mph) 0 Ft-Lb) Calculated using size and stiffness categories.

General Information

Vehicle #2 Vehicle #1

1900 1996 Year Ford Make Escort Model

BARRIER 12FZEW2 CDC F Side Damaged 0 e PDOF Angle 00 0 ø Heading Angle

Size and Stiffness Calculation method: Size and Stiffness

Size Category 11 Stiffness Category 1293 kgs ( 2851 lbs) 453592 kgs ( 999999 lbs) Vehicle Weight

### Damage Information

	Vehicle #1	Vehicle #2
Vehicle Damage Known Crush Length C1 C2 C3 C4 C5 C6 D	Yes  145.0 cm ( 57 in) 0.0 cm ( 0 in) 3.0 cm ( 1 in) 16.5 cm ( 6 in) 23.0 cm ( 9 in) 6.5 cm ( 3 in) 0.0 cm ( 0 in) 32.0 cm ( 13 in) 37.0 cm ( 15 in)	Yes  0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in) 0.0 cm ( 0 in)

### Vehicle Dimensions

	Vehicle #1	Vehicle #2
Length Width Wheelbase Weight CG to Front of Veh Engine Displacement	433.0 cm ( 170 in) 169.0 cm ( 67 in) 250.0 cm ( 98 in) 1293 kgs ( 2851 lbs) 193.0 cm ( 76 in) 0.0 liters	0.0 cm ( 0 in) 0.0 cm ( 0 in) 254.0 cm ( 100 in) 453592 kgs ( 999999 lbs) 127.0 cm ( 50 in) 0.0 liters
Moment of Inertia Vehicle Mass	219014 kgs ( 19385 lbs) 2 1293 kgs ( 7.4 lb-s^2/in) 45	9375740821 kgs (2600101632 lbs) 3515 kgs (2600.1 lb-s^2/in)